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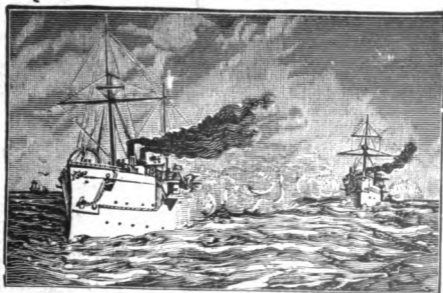
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Blocks for Rope Straps.

Lignumvitae or Galvanized Iron Sheaves.

Single.



Fig. 301.

Double.



Fig. 302.

Triple.



Fig. 303.

Length of Shell, Inches.	For Dia. Rope, Inches.	Common Iron Bushed.			Patent Roller Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
2	$\frac{1}{4}$	\$0.22	\$0.40	\$0.56	....	....	....
2 $\frac{1}{2}$	$\frac{5}{16}$	.25	.45	.65	....	....	....
3	$\frac{3}{8}$	.28	.48	.72	\$0.54	\$1.08	\$1.54
3 $\frac{1}{2}$	$\frac{7}{16}$	.31	.56	.80	.67	1.23	1.75
4	$\frac{1}{2}$	.36	.66	.90	.77	1.41	1.92
5	$\frac{5}{8}$	.45	.82	1.12	.96	1.76	2.40
6	$\frac{3}{4}$	.54	.99	1.35	1.08	2.07	2.97
7	$\frac{7}{8}$	.72	1.33	1.84	1.28	2.45	3.52
8	1	.96	1.76	2.40	1.75	3.34	4.77
9	1	1.26	2.34	3.24	2.05	3.92	5.61
10	1 $\frac{1}{4}$	1.80	3.30	4.50	2.98	5.66	8.04
12	1 $\frac{1}{2}$	2.16	3.96	5.40	3.46	6.56	9.30
14	1 $\frac{3}{4}$	3.30	6.50	9.00	5.02	9.94	14.16

In ordering these blocks, always state:—

Number of Figure, Length of Shell, Lignumvitae or Galvanized Iron Sheaves, Common Iron Bushed or Patent Roller Bushed.

Rope Strapped Blocks.

Lignumvitae or Iron Sheaves.

Single.



Fig. 304.

Double.



Fig. 305.

Triple.



Fig. 306.

Length of Shell, Inches.	For Diam. Rope, Inches.	Common Iron Bushed.			Patent Roller Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	$\frac{1}{4}$	\$0.65	\$1.05	\$1.60	\$1.00	\$1.85	\$2.75
3 $\frac{1}{2}$	$\frac{1}{4}$	.70	1.15	1.75	1.05	2.00	3.00
4	$\frac{1}{4}$	.76	1.30	2.00	1.10	2.15	3.15
5	$\frac{1}{4}$	.83	1.58	2.10	1.20	2.85	3.50
6	$\frac{1}{4}$	1.05	1.80	2.60	1.45	2.75	4.20
7	$\frac{1}{2}$	1.25	2.25	3.30	1.65	3.25	4.75
8	1	1.54	2.60	3.75	2.15	3.85	5.75
9	1	1.80	3.25	4.50	2.50	4.50	7.00
10	1 $\frac{1}{4}$	2.50	4.25	5.90	3.30	5.75	8.35
12	1 $\frac{1}{2}$	4.00	6.50	9.50	4.90	8.00	12.50
14	1 $\frac{3}{4}$	6.00	9.50	13.50	7.50	11.00	17.00

In ordering these blocks, always state :

Number of Figure, Length of Shell, Lignumvitae or Iron Sheaves, Iron Bushed or Patent Roller Bushed.

Regular Iron Strapped Blocks.

Loose Side Hooks.

Lignumvitae or Iron Sheaves.



Fig. 307.



Fig. 308.



Fig. 309.



Fig. 310.



Fig. 311.



Fig. 312.

COMMON IRON BUSHED.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Single, Each.	Double, Each.	Triple, Each.
3	1½ x ½ x ¾	¾	\$0.70	\$1.30	\$1.75
3½	2 x ¾ x 1	¾	.75	1.45	2.00
4	2½ x 1 x 1¼	¾	.85	1.60	2.15
5	3 x 1¼ x 1¾	¾	.90	1.75	2.25
6	3½ x 1½ x 2	¾	1.10	2.00	2.90
7	4½ x 1¾ x 2½	¾	1.30	2.40	3.50
8	5 x 2 x 2¾	1	1.65	2.85	4.25
9	5½ x 2¼ x 3	1	1.85	3.40	4.75
10	6½ x 2½ x 3½	1½	2.75	4.50	6.25
12	8 x 3 x 4	1½	4.45	7.50	10.85
14	9½ x 3½ x 4½	1¾	7.00	10.50	15.00
15	10 x 4 x 5	1¾	8.00	13.00	18.00
16	11 x 4½ x 5½	1¾	10.00	15.00	22.00

See page 10 for Extras on Galvanized Straps.

Regular Iron Strapped Blocks.

Loose Side Hooks.

Lignumvitae or Iron Sheaves.



Fig. 313.



Fig. 314.



Fig. 315.



Fig. 316.



Fig. 317.



Fig. 318.

PATENT ROLLER BUSHED.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Single, Each.	Double, Each.	Triple, Each.
3	1½ x 1 x ½	½	\$1.10	\$2.00	\$2.90
3½	2 x 1½ x 1	¾	1.15	2.20	3.15
4	2½ x 2 x 1½	1	1.20	2.25	3.25
5	3 x 2½ x 2	1¼	1.25	2.35	3.50
6	3½ x 3 x 2½	1½	1.50	2.85	4.40
7	4½ x 3½ x 3	1¾	1.70	3.35	5.00
8	4½ x 4 x 3½	1	2.25	4.15	6.00
9	5½ x 4½ x 4	1	2.50	4.70	7.25
10	6½ x 5½ x 5	1½	3.50	6.00	8.50
12	8 x 6½ x 6	1½	5.80	9.20	13.20
14	9½ x 8 x 7	1¾	8.15	12.80	18.45
15	10 x 9½ x 8	1¾	9.25	15.50	21.75
16	11 x 10 x 9	1¾	11.50	18.00	26.50

See page 10 for Extras on Galvanized Straps.

Regular Iron Strapped Blocks.

Loose Side Hooks.

Lignumvitae or Iron Sheaves.



Fig. 319.



Fig. 320.



Fig. 321.



Fig. 322.



Fig. 323.



Fig. 324.

SELF-LUBRICATING METALINE BUSHED.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Single, Each.	Double, Each.	Triple, Each.
4	2½ x ¾ x ¾	½	\$1.50	\$2.90	\$4.15
5	3 x ¾ x ¾	¾	1.75	3.35	4.75
6	3½ x 1 x ¾	¾	2.20	4.00	5.80
7	4½ x 1 x ¾	¾	2.50	4.50	6.70
8	4½ x 1½ x ¾	1	3.25	5.70	8.50
9	5½ x 1½ x ¾	1	3.70	6.75	10.00
10	6½ x 1½ x ¾	1½	4.75	8.50	12.50
12	8 x 1½ x ¾	1½	6.75	12.50	18.50
14	9½ x 1½ x ¾	1½	9.75	17.00	25.00
15	10 x 1½ x ¾	1½	11.00	19.50	28.50

See page 10 for Extras on Galvanized Straps.

Regular Iron Strapped Blocks.

Loose Side Hooks.

Lignumvitae or Iron Sheaves.



Fig. 325.



Fig. 326.



Fig. 327.



Fig. 328.



Fig. 329.



Fig. 330.

SELF-ADJUSTING FIVE ROLLER BUSHED.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rops, Inches.	Single, Each.	Double, Each.	Triple, Each.
3	1½ x ½ x ½	½	\$1.10	\$2.00	\$2.90
3½	2 x ½ x ½	¾	1.15	2.20	3.15
4	2½ x ¾ x ¾	¾	1.20	2.25	3.25
5	3 x ¾ x ¾	¾	1.25	2.35	3.50
6	3½ x 1 x ¾	¾	1.50	2.85	4.40
7	4½ x 1 x ¾	¾	1.70	3.35	5.00
8	4½ x 1½ x ¾	1	2.25	4.15	6.00
9	5½ x 1½ x ¾	1	2.50	4.70	7.25
10	6½ x 1½ x ¾	1½	3.50	6.00	8.50
12	8 x 1½ x ¾	1½	5.30	9.20	13.20
14	9½ x 1½ x ¾	1½	8.15	12.80	18.45
15	10 x 1½ x ¾	1½	9.25	15.50	21.75
16	11 x 1½ x ¾	1½	11.50	18.00	26.50

See page 10 for Extras on Galvanized Straps.

Heavy Tackle Blocks.

Wide Mortise. Double Cross Bolted.
 Extra Heavy Straps.
 Extra Heavy Loose Side Hooks.
 Lignumvitae or Iron Sheaves.
 With Beckets.

Single.

Double.

Triple.

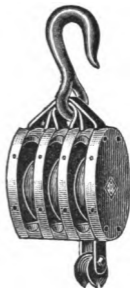


Fig. 331.

Fig. 332.

Fig. 333.

Without Beckets.

Single.

Double.

Triple.



Fig. 334.

Fig. 335.

Fig. 336.

For Blocks with Loose Swivel Hooks, add extras to list as per page 10.

Rings or Shackles in place of Hooks furnished at no extra charge.

Heavy Tackle Blocks.

Wide Mortise.

Double Cross Bolted.

Extra Heavy Straps.

Extra Heavy Loose Side Hooks.

Lignumvitae or Iron Sheaves.

Length of Shell, Inches.	Size of Sheave, Inches.	For Dia. Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
7	4½ x 1½ x ½	1	\$2.25	\$4.00	\$5.50
8	4½ x 1½ x ¾	1½	2.75	4.50	6.30
9	5½ x 1½ x ¾	1½	3.15	5.25	7.25
10	6½ x 1½ x ¾	1½	4.00	6.50	8.50
12	8 x 1½ x ¾	1½	5.25	8.50	12.50
14	9½ x 1½ x ¾	1½	8.00	13.00	17.00
15	10 x 1½ x 1	1¾	9.00	15.00	20.00
16	11 x 2½ x 1	2	11.50	18.00	28.00

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
7	\$3.00	\$5.50	\$7.75	.....	.....	.....
8	3.50	6.00	8.55	\$5.00	\$9.00	\$13.00
9	4.00	6.95	9.80	5.75	10.50	15.00
10	5.25	9.00	12.25	7.25	13.50	19.00
12	6.50	11.00	16.25	9.25	17.00	25.00
14	9.75	16.50	22.25	13.00	23.50	33.00
15	11.00	19.00	26.00	15.00	26.50	37.00
16	14.00	23.00	35.50	18.00	32.00	48.00

For Blocks with mortise wider than above, add 10 per cent. to list for each extra ¼ inch or fraction thereof.

For Blocks with Loose Swivel Hooks, add extras to list as per page 10.

Extra Heavy Tackle Blocks.

Extra Heavily Strapped, with Lashing Shackles.
For Railroad Wrecking-Cars and Steamboat Use.

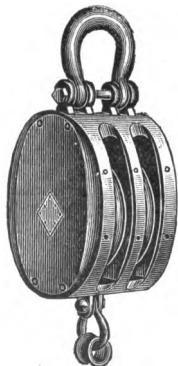


Fig. 337.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
18	12 x 2 $\frac{1}{8}$ x 1 $\frac{1}{8}$	2 $\frac{1}{2}$	\$15.00	\$29.00	\$42.00
20	14 x 2 $\frac{1}{8}$ x 1 $\frac{1}{4}$	2 $\frac{3}{4}$	21.00	37.00	54.00
22	15 x 3 $\frac{1}{8}$ x 1 $\frac{1}{4}$	3	26.00	48.00	70.00
24	16 x 3 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3 $\frac{1}{2}$	32.00	56.00	84.00

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
18	\$18.00	\$35.00	\$52.00	\$23.00	\$44.00	\$63.00
20	25.00	45.00	65.00	32.00	54.00	77.00
22	.....	.....	.....	38.00	70.00	100.00
24	.....	.....	.....	46.00	85.00	125.00

These Blocks are strapped with Norway iron and heavy lashing shackle, and are suitable to hoist from 30 to 75 tons, being the strongest and safest Blocks in the world for heavy lifts.

Extras.

For Blocks with Galvanized Straps or Loose Swivel Hooks, the following Extras are to be added to cost price.

Size Block. Length of Shell, Inches.	Galvanized Straps.			Loose Swivel Hooks.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	\$0.04	\$0.06	\$0.10	....	....	....
3½	.04	.06	.10	....	....	....
4	.05	.07	.11	....	....	....
5	.06	.08	.12	\$0.50	\$0.50	\$0.50
6	.10	.12	.15	.50	.50	.60
7	.12	.15	.18	.50	.60	.75
8	.16	.21	.30	.60	.75	.90
9	.22	.28	.38	.75	.90	1.20
10	.28	.38	.50	.90	1.20	1.75
12	.35	.45	.60	1.20	1.75	2.50
14	.55	.75	1.00	2.50	3.00	3.50
15	.75	.95	1.25	3.00	3.50	....
16	.85	1.20	1.50	3.50	....	....

Rule for Beckets.

We furnish beackets in all Single, one-half Double and one-third Triple Blocks without charge. For any additional proportion than the above, five cents each net will be charged for beackets in Blocks five inches and under, and one cent per inch of shell (in length) for each additional becket in sizes larger.

Wood Snatch Blocks.

Self-locking
Link.



Fig. 347.

Bail.



Fig. 348.

Link.



Fig. 349.

Iron Snatch Blocks.

Wrought Iron Shells.

Hollow Malleable Iron Shells.

Link.



Fig. 350.

Self-locking Link.



Fig. 351.



Fig. 352.

Wood Snatch Blocks.

Figures 347, 348 and 349.

Length of Shell. Inches.	Size of Sheave. Inches.	For Diameter Rope. Inches.	Common Iron Bushed. Each.	Patent Roller Bushed. Each.	Self-lubricating, Metaline Bushed. Each.	Galvan. Straps. Extra Not List. Each.
6	3 x 1 $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{7}{8}$	\$4.00	\$4.65	\$5.25	\$0.20
7	3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{7}{8}$	4.75	5.50	6.00	.25
8	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1	5.75	6.60	7.25	.35
9	5 x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{8}$	6.75	7.75	8.50	.40
10	5 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	8.50	10.00	11.00	.65
12	6 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	10.00	11.50	13.00	.90
14	8 x 2 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	13.00	15.00	16.50	1.20
16	9 x 2 $\frac{1}{2}$ x 1	2	17.00	20.00	22.00	....
18	10 x 3 x 1	2 $\frac{1}{2}$	25.00	28.50	31.00	....
20	11 x 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	2 $\frac{1}{2}$	38.00	43.00	46.00	....
22	11 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	3	55.00	63.00	68.00	....
24	12 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	3 $\frac{1}{2}$	70.00	78.00	86.00	....

Iron Snatch Blocks.

Figures 350, 351 and 352.

Length of Shell. Inches.	Size of Sheave. Inches.	For Diameter Rope. Inches.	Common Iron Bushed. Each.	Self-lub'g. Metaline Bushed. Each.
6	3 x 1 $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{7}{8}$	\$5.00	\$5.50
7	3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{7}{8}$	5.50	6.00
8	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1	7.00	7.65
9	5 x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{8}$	8.00	9.00
10	5 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	9.00	10.50
12	6 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	11.50	13.00
14	8 x 2 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{4}$	15.00	16.25
16	9 x 2 $\frac{1}{2}$ x 1	2	20.00	21.75
18	10 x 3 x 1	2 $\frac{1}{2}$	25.00	28.00
20	11 x 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	2 $\frac{1}{2}$	36.00	39.50
22	11 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	3	52.00	60.50
24	12 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	3 $\frac{1}{2}$	72.00	85.00

Special Strappings.

BLOCKS WITH LOOSE SWIVEL HOOKS.



Fig. 392.



Fig. 393.



Fig. 394.



Fig. 395.



Fig. 396.



Fig. 397.

Special Strappings.

BLOCKS WITH LOOSE SWIVEL HOOKS.

Lignumvitae or Iron Sheaves.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
4	2½ x ½ x ½	½	\$1.35	\$2.10	\$2.65
5	3 x ¾ x ¾	¾	1.40	2.25	2.75
6	3½ x 1 x ½	¾	1.60	2.50	3.50
7	4½ x 1 x ½	¾	1.80	3.00	4.25
8	4½ x 1½ x ½	1	2.25	3.60	5.15
9	5½ x 1½ x ½	1	2.60	4.30	5.95
10	6½ x 1½ x ½	1½	3.65	5.70	8.00
12	8 x 1½ x ½	1½	5.65	9.25	13.15
14	9½ x 1½ x ½	1½	9.50	13.50	18.50

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating, Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
4	\$1.70	\$2.75	\$3.75	\$2.00	\$3.40	\$4.65
5	1.75	2.85	4.00	2.25	3.85	5.25
6	2.00	3.35	5.00	2.70	4.50	6.40
7	2.20	3.95	5.75	3.00	5.10	7.45
8	2.85	4.90	6.90	3.85	6.45	9.40
9	3.25	5.60	8.45	4.45	7.65	11.20
10	4.40	7.20	10.25	5.65	9.70	14.25
12	6.50	10.95	15.70	7.95	14.25	21.00
14	10.65	15.80	21.95	12.25	20.00	28.50

See page 10 for Extras on Galvanized Straps.

Special Strappings.

BLOCKS WITH SISTER HOOKS.



Fig. 409.



Fig. 410.



Fig. 411.



Fig. 412.

BLOCKS WITH EYE AND THIMBLE.



Fig. 413.



Fig. 414.



Fig. 415.



Fig. 416.

BLOCKS WITH LASHING EYE.



Fig. 417.



Fig. 418.



Fig. 419.



Fig. 420.

Special Strappings.

Lignumvitae or Iron Sheaves.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
3	1½ x ½ x ¾	¾	\$0.70	\$1.30	\$1.75
3½	2 x ½ x ¾	¾	.75	1.45	2.00
4	2½ x ¾ x ¾	¾	.85	1.60	2.15
5	3 x ¾ x ¾	¾	.90	1.75	2.25
6	3½ x 1 x ¾	¾	1.10	2.00	2.90
7	4½ x 1 x ¾	¾	1.30	2.40	3.50
8	4½ x 1½ x ¾	1	1.65	2.85	4.25
9	5½ x 1½ x ¾	1	1.85	3.40	4.75
10	6½ x 1½ x ¾	1½	2.75	4.50	6.25
12	8 x 1½ x ¾	1½	4.45	7.50	10.65
14	9½ x 1½ x ¾	1½	7.00	10.50	15.00
15	10 x 1½ x ¾	1½	8.00	13.00	18.00
16	11 x 1½ x ¾	1½	10.00	15.00	22.00

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating, Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	\$1.10	\$2.00	\$2.90	....	....	....
3½	1.15	2.20	3.15	....	....	....
4	1.20	2.25	3.25	\$1.50	\$2.90	\$4.15
5	1.25	2.35	3.50	1.75	3.35	4.75
6	1.50	2.85	4.40	2.20	4.00	5.80
7	1.70	3.35	5.00	2.50	4.50	6.70
8	2.25	4.15	6.00	3.25	5.70	8.50
9	2.50	4.70	7.25	3.70	6.75	10.00
10	3.50	6.00	8.50	4.75	8.50	12.50
12	5.30	9.20	13.20	6.75	12.50	18.50
14	8.15	12.80	18.45	9.75	17.00	25.00
15	9.25	15.50	21.75	11.00	19.50	28.50
16	11.50	18.00	26.50	....	....	....

See page 10 for Extras on Galvanized Straps.

Special Strappings.

BLOCKS WITH RINGS.



Fig. 421.



Fig. 422.



Fig. 423.



Fig. 424.



Fig. 425.



Fig. 426.

Punched
Eye.



Fig. 427.



Fig. 428.

Swivel
Jaw.



Fig. 429.

Add to list on opposite page for Blocks with Swivel Jaws:

Size Block,	5	6	7	8	9	10	12
Each,	\$1.00	1.25	1.50	1.75	2.00	2.25	2.50

Special Strappings.

Lignumvitae or Iron Sheaves.

Length of Shell, Inches.	Size of Sheave, Inches.	For Diameter Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
3	1½ x ½ x ¾	¾	\$0.70	\$1.30	\$1.75
3½	2 x ½ x ¾	¾	.75	1.45	2.00
4	2½ x ¾ x ¾	¾	.85	1.60	2.15
5	3 x ¾ x ¾	¾	.90	1.75	2.25
6	3½ x 1 x ¾	¾	1.10	2.00	2.90
7	4½ x 1 x ¾	¾	1.30	2.40	3.50
8	4½ x 1½ x ¾	1	1.65	2.85	4.25
9	5½ x 1½ x ¾	1	1.85	3.40	4.75
10	6½ x 1½ x ¾	1½	2.75	4.50	6.25
12	8 x 1½ x ¾	1½	4.45	7.50	10.65
14	9½ x 1½ x ¾	1½	7.00	10.50	15.00
15	10 x 1½ x ¾	1½	8.00	13.00	18.00
16	11 x 1½ x ¾	1½	10.00	15.00	22.00

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating, Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	\$1.10	\$2.00	\$2.90	....	....	....
3½	1.15	2.20	3.15	....	....	....
4	1.20	2.25	3.25	\$1.50	\$2.90	\$4.15
5	1.25	2.35	3.50	1.75	3.35	4.75
6	1.50	2.85	4.40	2.20	4.00	5.80
7	1.70	3.35	5.00	2.50	4.50	6.70
8	2.25	4.15	6.00	3.25	5.70	8.50
9	2.50	4.70	7.25	3.70	6.75	10.00
10	3.50	6.00	8.50	4.75	8.50	12.50
12	5.30	9.20	13.20	6.75	12.50	18.50
14	8.15	12.80	18.45	9.75	17.00	25.00
15	9.25	15.50	21.75	11.00	19.50	28.50
16	11.50	18.00	26.50	....	....	....

See page 10 for Extras on Galvanized Straps.

Special Strappings.

BLOCKS WITH SHACKLES.

Wide Mortise.

Double Cross Bolted.

Extra Heavy Straps.



Fig. 430.



Fig. 431.



Fig. 432.



Fig. 433.



Fig. 434.



Fig. 435.

REGULAR MORTISE BLOCKS WITH SHACKLES.



Fig. 436.

For Regular Mortise Blocks with Shackles, Oval Shells; not cross-bolted, use list on page 30.

Special Strappings.

BLOCKS WITH SHACKLES.

Wide Mortise.

Double Cross Bolted.

Extra Heavy Straps.

Lignumvitae or Iron Sheaves.

Length of Shell, Inches.	Size of Sheave, Inches.	For Dia. Rope, Inches.	Common Iron Bushed.		
			Single, Each.	Double, Each.	Triple, Each.
7	4½ x 1½ x ½	1	\$2.25	\$4.00	\$5.50
8	4½ x 1½ x ⅝	1½	2.75	4.50	6.30
9	5½ x 1½ x ⅝	1½	3.15	5.25	7.25
10	6½ x 1½ x ⅝	1½	4.00	6.50	8.50
12	8 x 1½ x ⅝	1½	5.25	8.50	12.50
14	9½ x 1½ x ⅝	1½	8.00	13.00	17.00
15	10 x 1½ x 1	1½	9.00	15.00	20.00
16	11 x 2½ x 1	2	11.50	18.00	28.00

Length of Shell, Inches.	Patent Roller Bushed.			Self-lubricating Metaline Bushed.		
	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
7	\$3.00	\$5.50	\$7.75	\$4.25	\$7.50	\$10.00
8	3.50	6.00	8.55	5.00	9.00	13.00
9	4.00	6.95	9.80	5.75	10.50	15.00
10	5.25	9.00	12.25	7.25	13.50	19.00
12	6.50	11.00	16.25	9.25	17.00	25.00
14	9.75	16.50	22.25	13.00	23.50	33.00
15	11.00	19.00	26.00	15.00	26.50	37.00
16	14.00	23.00	35.50	18.00	32.00	48.00

For Blocks with mortise wider than above, add 10 per cent. to list for each extra ¼ inch or fraction thereof.

See page 10 for Extras on Galvanized Straps.

Jib-Sheet Blocks For Rope Straps.

Common Iron Bushed.



Fig. 456.

Length of Shell, Inches.	ASH, Each.	LIGNUMVITAE, Each.
4	\$0.50	\$0.65
5	.55	.70
6	.65	.80
7	.80	1.00
8	1.00	1.25
9	1.20	1.50
10	1.60	2.00

Iron Strapped Jib-Sheet Blocks.

Common Iron Bushed.



Fig. 457.

Length of Shell, Inches.	LIGNUMVITAE, Each.
4	\$1.75
5	2.00
6	2.25
7	2.75
8	3.50
9	4.00
10	5.00

Leaders For Wheel Ropes.

Galvanized Iron Frame.



Fig. 458.

Lignumvitae Sheave.

2½ x 1½

\$0.75 each.

Mast-head Balls.



Fig. 459.

Size, Inches.	Pine. Two Holes, Each.	Lignumvitae.			Gilding. Net Extra, Each.
		Two Holes, Each.	One Brass Sheave, Each.	Two Brass Sheaves, Each.	
2	\$0.25	\$0.30	\$0.75	\$1.20	\$0.50
2½	.25	.40	.75	1.20	.50
3	.25	.50	.75	1.20	.50
3½	.30	.60	.85	1.35	.60
4	.35	.70	.95	1.50	.60
4½	.40	.85	1.10	1.65	.75
5	.50	1.00	1.25	1.85	.90
5½	.60	1.10	1.35	1.95	1.00
6	.75	1.25	1.50	2.25	1.25

Mast-head Trucks.

Lignumvitae.



Fig. 460.

Size, Inches.	Two Holes, Each.	One Sheave, Each.	Two Sheaves Each.
2	\$0.18		
2½	.20		
3	.20	\$0.45	\$0.65
3½	.22	.50	.70
4	.25	.55	.80
4½	.28	.60	.90
5	.33	.65	1.00
5½	.38	.75	1.10
6	.45	.85	1.20
7	1.00	1.50	2.00
8	1.50	2.00	2.50

Lizards.

Lignumvitae.



Fig. 461.

Outside Diameter, Inches.	Diameter of Hole, Inches.	Per Dozen.
1	$\frac{1}{4}$	\$0.60
$1\frac{1}{4}$	$\frac{1}{4}$	.60
$1\frac{1}{2}$	$\frac{1}{4}$	.70
$1\frac{3}{4}$	$\frac{1}{4}$	.70
2	$\frac{1}{4}$	.80
$2\frac{1}{4}$	$\frac{1}{4}$	.90
$2\frac{1}{2}$	1	1.00
$2\frac{3}{4}$	$1\frac{1}{4}$	1.20
3	$1\frac{1}{4}$	1.50
$3\frac{1}{4}$	$1\frac{1}{4}$	1.87
$3\frac{1}{2}$	$1\frac{3}{4}$	2.00
$3\frac{3}{4}$	$1\frac{3}{4}$	2.25
4	$1\frac{3}{4}$	2.80

Iron Strapped Lizards.



Fig. 462.

Outside Dia. Inches.	Dia. of Hole, Inches.	Per Dozen.
$1\frac{1}{4}$	$\frac{1}{4}$	\$0.75

Parrel Trucks.

Lignumvitae.



Fig. 463.

Size.	Per Dozen.
$\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ inch	\$0.40
$1\frac{1}{4}$, $1\frac{1}{2}$, 2 inch . . .	.75
$2\frac{1}{4}$, $2\frac{1}{2}$ inch . . .	1.00
$2\frac{3}{4}$ inch . . .	1.25
3 inch . . .	1.55
$3\frac{1}{4}$ inch . . .	1.90
$3\frac{1}{2}$ inch . . .	2.05
4 inch . . .	3.00

Dead Eyes, Hearts and Bull's Eyes.

Lignumvitae.

For Wire or Hemp Rope.

Upper Dead Eye.

Heart.

Bull's Eye.



Fig. 464.



Fig. 465.



Fig. 466.

For Iron Straps.

Lower Dead Eye.

Heart.

Bull's Eye.



Fig. 467.



Fig. 468.



Fig. 469.

Diameter, Inches.	Each.	Diameter, Inches.	Each.
2	\$0.28	6	\$0.84
2½	.35	6½	.91
3	.42	7	1.35
3½	.49	7½	1.60
4	.56	8	1.85
4½	.63	8½	2.25
5	.70	9	3.25
5½	.77		

In ordering, be careful to state whether for Wire Rope, for Hemp Rope, or for Iron Straps.

Leading Trucks.

Lignumvitae.

Single.

Double.

Triple.



Fig. 470.

Price, \$0.20



Fig. 471.

.25



Fig. 472.

.30 Each.

Please state, when ordering, whether for Hemp or Wire Rope.

Lignumvitae or Ash Oval Shells. Brass Screw Rivets.
Galvanized Iron Straps.



A



B



C



D



E



F



G



H



I



J



K



L



M



N



O



P



Q



R



S



T

Yacht Blocks.

Lignumvitae or Ash Oval Shells.

Galvanized Iron Straps Brass Screw Rivets.

The following Blocks are sold at regular list and discount:



- A, B, C, Loose Side Hook.
- D, Punched Eye.
- E, Regular Shackle.
- F, G, H, Sister Hook.
- K, L, M, Ring.
- O, Loose Front Hook.
- S, Loose Screw Eye Bolt.



U.

Add for Special Strappings as follows:



V.

- | | | | |
|-------|-------------------------|------------|--------|
| I, | Stiff Swivel Hook, | Each, Net. | \$0.90 |
| J, | Loose Swivel Hook, | | 1.00 |
| N, | Stiff Hooks, | | .75 |
| P, Q, | Coleman Hook, | | .25 |
| R, | Swivel Deck Attachment, | | 1.00 |
| T, | Reverse Shackle, | | .75 |
| U, V, | Pig Tail Hook, | | .75 |
| W, | Reverse Upset Shackle, | | .75 |
| | Swivel Shackles, | | .75 |
| | Anchor Trip Hook, | | 6.50 |

Universal Swivel Jaws, with Double Eyes for Guys. 3.50

COMMON BUSHED.

Length of Shell, Inches.	Dia. of Rope, Inches.	COMMON BUSHED.					
		Galvanized Sheaves.			Brass Sheaves.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	$\frac{1}{4}$	\$0.95	\$1.50	\$2.85	\$1.30	\$2.20	\$3.90
3 $\frac{1}{2}$	$\frac{3}{8}$	1.00	1.65	3.00	1.40	2.35	4.20
4	$\frac{1}{2}$	1.05	1.75	3.15	1.50	2.50	4.50
4 $\frac{1}{2}$	$\frac{5}{8}$	1.10	1.90	3.30	1.60	2.75	4.80
5	$\frac{3}{4}$	1.20	2.00	3.60	1.75	3.00	5.25
6	$\frac{7}{8}$	1.80	2.90	5.40	2.20	3.75	6.60

PATENT ROLLER BUSHED.

Length of Shell, Inches.	Dia. of Rope, Inches.	PATENT ROLLER BUSHED.					
		Galvanized Sheaves.			Brass Sheaves.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
3	$\frac{1}{4}$	\$1.30	\$2.20	\$3.90	\$1.50	\$2.60	\$4.50
3 $\frac{1}{2}$	$\frac{3}{8}$	1.40	2.35	4.20	1.60	2.75	4.80
4	$\frac{1}{2}$	1.50	2.50	4.50	1.75	3.00	5.25
4 $\frac{1}{2}$	$\frac{5}{8}$	1.60	2.75	4.80	1.85	3.25	5.55
5	$\frac{3}{4}$	1.75	3.00	5.25	2.10	3.70	6.30
6	$\frac{7}{8}$	2.20	3.75	6.60	2.75	4.85	8.25

Jib Sheet Blocks.

With Heart Shackles.

Galvanized Straps.



Fig. 542.



Fig. 543.

Length of Shell, Inches.	Common Bushed.		Patent Roller Bushed.	
	Galvanized Sheaves, Per Pair.	Brass Sheaves, Per Pair.	Galvanized Sheaves, Per Pair.	Brass Sheaves, Per Pair.
3	\$3.00	\$3.50	\$3.50	\$4.00
3½	3.25	4.00	4.00	4.50
4	3.50	4.50	4.50	5.00
4½	3.75	5.00	5.00	5.50
5	4.00	5.50	5.50	6.00

Bridal Blocks.



Fig. 544.

Length of Shell, Inches.	Patent Brass Sheaves.	
	Fig. 544, Each.	Fig. 545, Each.
3	\$2.50	\$3.00
3½	2.50	3.25
4	2.75	3.50
4½	3.25	4.00
5	3.50	4.25
6	4.50	5.00



Fig. 545.

Yacht Snatch Blocks.

Lignumvitae Shells. Patent Brass Sheaves.



Fig. 546.

Length, Inches.	Size of Sheave, Inches.	Dia. Rope.	Each.
5	1½ x ½	½	\$1.85
6½	2 x ¾	¾	1.50
8	2½ x 1	1	1.75
10	3 x 1½	1½	2.25

Reef or Gaff Chocks.



Fig. 547.

Inches.	Common Brass Sheaves, Each.
4	\$0.80
5	1.00
6	1.20
7	1.40



Fig. 548.

Fiddle Blocks.

Lignumvitae or Ash.



Fig. 549.

Number.	Dia. of Sheaves, Inches.	Patent Galvanized Sheaves, Each.	Patent Brass Sheaves, Each.
1	2½ and 1½	\$5.15	\$5.60
2	3 and 2	5.65	6.20
3	3½ and 2½	6.70	7.50

Baby Tackle Blocks.
Lignumvitae Oval Shells.
Galvanized Iron Straps. Brass Screw Rivets.
Sister Hooks.



Fig. 550.



Fig. 551.



Fig. 552.

Loose Side Hooks.



Fig. 553.



Fig. 554.



Fig. 555.

Rings.



Fig. 556.



Fig. 557.



Fig. 558.

Length of Shell, Inches.	COMMON BUSHED.			
	Galvanized Sheaves.		Brass Sheaves.	
	Single, Each.	Double, Each.	Single, Each.	Double, Each.
2	\$0.95	\$1.50	\$1.30	\$2.20
2½	.95	1.50	1.30	2.20



Fig. 559.

Painters' Blocks.

With Extra Long Hooks.

Single.

Double.



Fig 560.

Fig. 561.

Length of Shell, Inches.	Dia. of Rope, Inches.	Common Iron Sheaves.		Patent Roller Sheaves.	
		Single, Each.	Double, Each.	Single, Each.	Double, Each.
6	$\frac{1}{2}$	\$1.10	\$2.00	\$1 50	\$2 85
7	$\frac{3}{4}$	1.30	2.40	1.70	3.35
8	1	1.65	2.85	2.25	4.15

Hay Fork Blocks.

Steel Shells.

Swivel Rings.



Fig. 562

Self Oiling.

Sheave, $4\frac{1}{2}$ x $1\frac{1}{2}$ inch.

Mortise, $1\frac{1}{2}$ inch.

Plenty of head. room.

The Sheave has a chamber which can be filled with tallow or oil and then corked up, which makes it self-oiling.

\$6.00 per Dozen.

Cargo Hoisting Blocks.

For Stevedore Use.
Swivel Hooks and Cross Bolted.



Fig. 568.

Self-lubricating, Metaline Bushed.

Length of Shell, Inches.	Size of Sheave, Inches.	Dia. of Rope, Inches.	Single, Each.
10	$6\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{2}$	\$6.00
12	$8 \times 1\frac{3}{8} \times \frac{3}{4}$	$1\frac{1}{4}$	8.50
14	$9\frac{1}{2} \times 1\frac{3}{8} \times \frac{3}{4}$	$1\frac{3}{8}$	11.00
15	$10 \times 1\frac{7}{8} \times \frac{3}{8}$	$1\frac{1}{2}$	13.00
16	$11 \times 1\frac{7}{8} \times \frac{7}{8}$	$1\frac{1}{2}$	15.00
18	$12 \times 2 \times 1$	$1\frac{1}{2}$	20.00
20	$14 \times 2\frac{1}{2} \times 1$	2	25.00

Union Cargo Hoisting Blocks.

For Stevedore Use.
Bronze Self-lubricating Side Bearings.
Galvanized Malleable Iron Frames, and Wrought Iron Straps.
Galvanized Sheaves with Self-lubricating Sides.



Fig. 569.

Self-lubricating, Metaline Bushed.

Length of Shell, Inches.	Size of Sheave, Inches.	Dia. of Rope, Inches.	Single, Each.
6	$4\frac{1}{2} \times 1 \times \frac{1}{2}$	$\frac{7}{8}$	\$4.00
7	$5\frac{1}{2} \times 1\frac{1}{8} \times \frac{3}{8}$	1	5.00
8	$6\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$	$1\frac{1}{8}$	7.00
10	$8 \times 1\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{4}$	9.50
12	$9\frac{1}{2} \times 1\frac{3}{8} \times \frac{3}{8}$	$1\frac{1}{2}$	12.00

Wood Dock Blocks.



Fig. 570.

Length of Shell, Inches.	Size of Sheave, Inches.	Dia. of Rope, Inches.	Patent Roller Bushed, Each.	Self-lub. Bushed, Each.
10	6½ x 1½ x ¾	1½	\$7.50	\$8.25
12	8 x 1¾ x ¾	1¾	11.00	12.00
14	9½ x 1¾ x ¾	1¾	14.00	15.00
15	10 x 1¾ x ¾	1¾	16.00	17.00
16	11 x 2 x 1	1¾	18.00	19.00

Iron Dock Blocks.



Fig. 571.

Length of Shell, Inches.	Size of Sheave, Inches.	Dia. of Rope, Inches.	Self-lub. Metaline Bushed, Each.
12	9 x 1¾ x	1½	\$12.00
13	10 x 1¾ x	1½	15.00

Steel Blocks.

Inside Iron Straps.

Loose Side Hooks.

Single.

Double.

Triple.



Fig. 601.

Fig. 602.

Fig. 603.

Length of Shell, inches.	Dia. of Rope, inches.	Common Iron Bushed.			Patent Roller Bushed.			Self-lubricating Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
4	1/4	\$0.85	\$1.60	\$2.15	\$1.20	\$2.25	\$3.25	\$1.50	\$2.90	\$4.10
5	3/8	.90	1.75	2.25	1.25	2.35	3.50	1.65	3.25	4.50
6	1/2	1.10	2.00	2.90	1.50	2.85	4.40	1.95	3.70	5.45
7	5/8	1.80	2.40	3.50	1.70	3.35	5.00	2.25	4.30	6.35
8	1	1.65	2.85	4.25	2.25	4.15	6.00	2.75	5.05	7.55
9	1 1/4	1.85	3.40	4.75	2.50	4.70	7.25	3.10	5.90	8.50
10	1 1/2	2.75	4.50	6.25	3.50	6.00	8.50	4.15	7.30	10.45
12	1 3/4	4.45	7.50	10.65	5.30	9.20	18.20	6.05	10.70	15.45
14	2	7.00	10.50	15.00	8.15	12.80	18.45	8.85	14.20	20.55

Heavy Steel Blocks.

Outside Iron Straps. Loose Side Hooks.

Single.



Fig. 604

Double.



Fig. 605.

Length of Shell, Inches.	For Dia. Rope, Inches.	Common Iron Bushed.			Patent Roller Bushed.			Self-lubricating, Metaline Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
4	$\frac{1}{4}$	\$0.90	\$1.75	\$2.50	\$1.25	\$2.45	\$3.50	\$1.65	\$3.25	\$4.75
5	$\frac{3}{8}$	1.00	1.90	2.75	1.35	2.60	3.65	1.80	3.50	5.15
6	$\frac{1}{2}$	1.25	2.25	3.25	1.65	3.05	4.25	2.10	4.00	5.80
7	$\frac{5}{8}$	1.50	2.70	4.00	1.90	3.50	4.70	2.45	4.60	6.85
8	1	1.85	3.20	4.75	2.45	4.40	6.20	2.90	5.30	7.90
9	1	2.40	4.00	5.50	3.00	5.20	7.00	3.55	6.30	9.00
10	1 $\frac{1}{4}$	3.10	5.10	7.00	3.85	6.80	8.85	4.40	7.70	11.00
12	1 $\frac{3}{4}$	5.00	8.25	11.75	5.85	9.95	14.30	6.45	11.15	16.00
14	1 $\frac{3}{4}$	7.50	11.75	16.50	8.75	14.25	20.25	9.10	15.00	21.30

Galvanized Steel Blocks.

Inside Iron Straps.

Loose Side Hooks.

Single.



Fig. 606.

Double.



Fig. 607.

Triple.



Fig. 608.

Length of Shell, Inches.	Dia. of Rope, Inches.	Common Bushed.			Patent Roller Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
4	$\frac{1}{2}$	\$1.00	\$1.80	\$2.70	\$1.35	\$2.45	\$3.80
5	$\frac{3}{4}$	1.10	2.05	2.85	1.45	2.65	4.10
6	$\frac{7}{8}$	1.35	2.45	3.75	1.75	3.30	5.25
7	$\frac{1}{2}$	1.75	3.15	4.85	2.15	4.10	6.35
8	1	2.35	3.85	5.75	2.95	5.15	7.50
9	$1\frac{1}{8}$	2.75	4.75	6.75	3.50	6.05	9.25
10	$1\frac{1}{4}$	3.95	6.40	9.00	4.70	7.90	11.25
12	$1\frac{3}{4}$	6.20	10.00	15.00	7.05	11.70	17.50
14	$1\frac{1}{2}$	9.50	14.00	21.00	10.65	16.30	24.50

Steel Blocks.

With Stiff Swivel Hooks.

Single.



Fig. 609.

Double.



Fig. 610.

Length of Shell, Inches.	Dia. of Rope, Inches.	Common Iron Bushed.			Self Lubricating.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
7	$\frac{1}{2}$	\$2.00	\$3.25	\$5.50	\$2.85	\$5.00	\$7.50
8	1	2.75	4.75	7.00	3.80	6.85	10.00
9	1 $\frac{1}{4}$	3.50	6.00	9.50	4.65	8.80	12.50
10	1 $\frac{1}{2}$	4.50	7.50	14.00	5.80	10.00	15.00
12	1 $\frac{3}{4}$	6.50	11.00	18.00	8.00	14.25	21.00
14	1 $\frac{3}{4}$	9.00	15.00	22.00	11.00	18.50	26.00
16	2	13.00	22.00	32.00	15.00	26.00	38.00

Wrought Iron Gin Blocks.

For the Ice Trade.

UPPER GIN BLOCK.

Swivel Hook.



Fig. 611.

Diameter of Sheave, Inches.	Self-lubricating, Each.
8	\$5.00
10	6.00
12	7.50
14	9.00
16	10.50

LOWER GIN BLOCK.

Iron Plate.

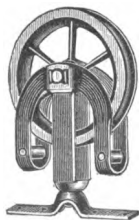


Fig. 612.

Diameter of Sheave, Inches.	Self-lubricating, Each.
8	\$5.75
10	6.75
12	8.25
14	10.00
16	11.50

The above Gins can be run at quick speed without the use of any oil, being self-lubricating, and are always ready for use.

Light Wire Rope Blocks.

Steel Shells.

Wrought Iron Straps.

Loose Side Hooks.

Single.

Double.



Fig. 621.



Fig. 622.

SELF-LUBRICATING BRONZE BUSHED.

Length of Shell, Inches.	Dia. of Rope, Inches.	Single, Each.	Double, Each.	Triple, Each.
12	$\frac{3}{8}$ & $\frac{1}{2}$	\$6.50	\$12.00	\$18.00
13	$\frac{1}{2}$ & $\frac{5}{8}$	8.00	15.00	22.00
16	$\frac{5}{8}$ & $\frac{3}{4}$	10.00	19.00	27.00
18	$\frac{3}{4}$ & 1	15.00	24.00	36.00

These Blocks are made with a Steel Shell, entirely protecting the sheave from injury by striking obstructions or in dragging the Blocks.

The shape of the sheave effectually prevents the rope from running up on the edge, thus saving it from cutting or jamming.

When the Block is used as a lower block in hoisting, we send guards at an extra list price of \$1.60 per pair, as they prevent the block from tipping over. All blocks are drilled for these guards, so they can be adjusted readily.

Where a swivel hook is not necessary, they are the strongest, lightest and cheapest wire rope blocks made.

Furnished with Safety Link Hooks or Loose Flattened Hooks, at same prices.

Wire Rope Gin Blocks.

Stiff Swivel Hook.

Single.

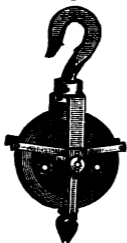


Fig. 623.

Double.



Fig. 624.

SELF-LUBRICATING BRONZE BUSHED.

Dia. of Sheave, Inches.	Dia. of Rope, Inches.	Single, Each.	Double, Each.
10	$\frac{1}{2}$	\$11.00	\$18.00
12	$\frac{3}{4}$	12.50	20.00
14	$\frac{1}{2}$	15.00	23.00
16	$\frac{7}{8}$	18.00	27.00
18	1	23.00	32.00
20	$1\frac{1}{8}$	28.00	38.00

Wire Rope Snatch Blocks.

Stiff Swivel Hook.



Fig. 625.

SELF-LUBRICATING BRONZE BUSHED.

Diameter of Sheave, Inches.	Diameter of Rope, Inches.	Each.
8	$\frac{1}{2}$	\$15.00
10	$\frac{3}{4}$	18.00
12	$\frac{1}{2}$	21.00
14	$\frac{3}{4}$	24.00
16	$\frac{7}{8}$	30.00
18	1	40.00
20	$1\frac{1}{4}$	52.00
22	$1\frac{1}{2}$	60.00

The Strap goes entirely around the Shell, giving the Block the maximum of strength.

These Blocks are fitted with a Patent Guard, to prevent any possibility of the rope leaving the sheave. This Guard may be applied or removed at pleasure.



Fig. 626.



Fig. 627.

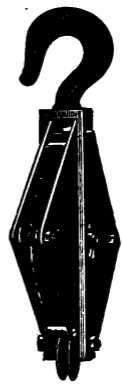


Fig. 628.

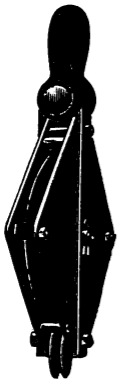


Fig. 629.

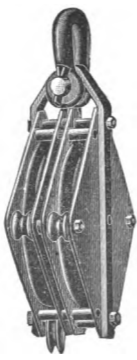


Fig. 630.



Fig. 631.

These Blocks have Extra Heavy Plates and Straps, and are designed for the heaviest work. Made to order only.

Heavy Wire Rope Blocks.

Figures 626, 627, 628, 629, 630 and 631.

Dia. of Sheave, Inches.	Dia. of Rope, Inches.	Common Iron Bushed.			Self-lubricating Metaline Bushed.		
		Single, Each.	Double, Each.	Triple, Each.	Single, Each.	Double, Each.	Triple, Each.
10	$\frac{1}{4}$	\$14.00	\$20.00	\$29.00	\$17.00	\$26.00	\$37.00
12	$\frac{1}{4}$	16.00	23.00	32.00	19.00	29.00	41.00
14	$\frac{1}{4}$	18.00	25.00	36.00	21.00	31.00	45.00
16	$\frac{3}{8}$	31.00	40.00	47.00	36.00	50.00	62.00
18	1	34.50	45.00	54.00	40.00	56.00	68.00

Special Sizes and Styles made to order.

Heavy Wire Rope Snatch Blocks.



Fig. 632.

Dia. of Sheave, Inches.	Dia. of Rope, Inches.	Common Iron Bushed, Each.	Self-lubricating Metaline Bushed, Each.
10	$\frac{1}{4}$	\$16.00	\$19.00
12	$\frac{1}{4}$	18.00	21.00
14	$\frac{1}{4}$	20.00	23.00
16	$\frac{3}{8}$	33.00	38.00
18	1	38.00	44.00

Sheaves.

**Iron
Common Iron Bushed.**

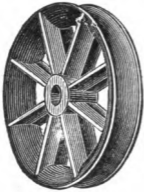


Fig. 649.

**Lignumvitae
Common Iron Bushed.**



Fig. 651.

**Iron
Patent Roller Bushed.**



Fig. 650.

**Lignumvitae
Patent Roller Bushed.**

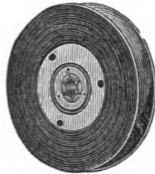


Fig. 652.

**Iron
Patent Self-Adjusting Five Roller Bushed.**



Fig. 653.

Sheaves.

For our Regular Blocks.

Japanned Iron, Galvanized Iron, or Lignumvitae.

Size of Sheave, Inches	For Block, Inches.	Common Iron Bushed, Each.	Patent Roller Bushed, Each.	Self- lubricating Bushed, Each.
1½ x ½ x ¾	3	\$0.09	\$0.40	....
2 x ¾ x 1	3½	.10	.42	\$0.60
2½ x 1 x 1½	4	.12	.45	.70
2½ x 1½ x 2	4½	.15	.50	.80
3 x 1½ x 2½	5	.20	.55	.90
3½ x 2 x 3	6	.25	.65	1.35
3½ x 1 x 2	6	.25	.65	1.40
4½ x 1 x 2	7	.30	.75	1.50
4½ x 1½ x 2½	8	.35	1.00	1.85
5½ x 1½ x 2½	9	.45	1.10	1.95
6½ x 1½ x 2½	10	.55	1.35	2.40
7½ x 1½ x 2½	11	.70	1.65	2.60
8 x 1½ x 2½	12	.90	1.90	2.95
9 x 1½ x 2½	13	1.20	2.40	3.25
9½ x 1½ x 2½	14	1.40	2.65	3.45
10 x 1½ x 2½	15	1.50	2.85	3.80
11 x 1½ x 2½	16	1.70	3.20	4.25

Sheaves.

For our Heavy Tackle Blocks.

Japanned Iron, Galvanized Iron, or Lignumvitae.

Size of Sheave, Inches.	For Block, Inches.	Common Iron Bushed, Each.	Patent Roller Bushed, Each.	Self- lubricating Bushed, Each.
4½ x 1½ x 2	7	\$0.85	\$0.95	\$1.60
4½ x 1½ x 2	8	.40	1.15	2.00
5½ x 1½ x 2	9	.50	1.25	2.10
6½ x 1½ x 2	10	.65	1.60	2.75
8 x 1½ x 2	12	1.05	2.10	3.25
9½ x 1½ x 2	14	1.50	2.85	3.75
10 x 1½ x 2	15	1.70	3.15	4.10
11 x 2½ x 1	16	2.00	3.50	5.50

Sheaves.

For Snatch Blocks.

Japanned Iron or Galvanized Iron,

Size of Sheave, Inches.	For Block, Inches.	For Dia. Rope, Inches.	Common Iron Bushed, Each.	Patent Roller Bushed, Each.	Self lubri'g. Metaline Bushed, Each.
3 x 1 $\frac{1}{8}$ x $\frac{1}{8}$	6	$\frac{7}{8}$	\$0.30	\$0.75	\$1.40
3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{1}{8}$	7	$\frac{7}{8}$	.40	.85	1.60
4 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{5}{8}$	8	1	.50	1.20	1.75
5 x 1 $\frac{3}{8}$ x $\frac{5}{8}$	9	1 $\frac{1}{8}$	.60	1.30	2.00
5 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{5}{8}$	10	1 $\frac{1}{4}$	1.20	2.40	3.00
6 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x $\frac{5}{8}$	12	1 $\frac{1}{2}$	1.50	2.85	3.75
8 x 2 $\frac{1}{2}$ x $\frac{5}{8}$	14	1 $\frac{3}{4}$	1.85	3.45	4.50
9 x 2 $\frac{3}{4}$ x 1	16	2	2.25	4.50	5.50
10 x 3 x 1	18	2 $\frac{1}{2}$	3.00	6.00	7.00
11 x 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	20	2 $\frac{1}{2}$	4.00	8.00	9.00

Sheaves.

Self-Adjusting Five Roller Bushed.

Japanned Iron, Galvanized Iron or Lignumvitae.

Sheave, Inches.	Each.	Sheave, Inches.	Each.
1 $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$	\$0.40	4 $\frac{1}{2}$ x 1 $\frac{1}{8}$ x $\frac{1}{8}$	\$0.75
1 $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	.42	4 $\frac{1}{2}$ x 1 $\frac{1}{8}$ x $\frac{3}{8}$	1.00
2 x $\frac{1}{8}$ x $\frac{3}{8}$	.42	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{1}{8}$	1.00
2 x $\frac{3}{8}$ x $\frac{3}{8}$	.45	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1.10
2 $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	.45	4 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{3}{8}$	1.20
2 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	.50	5 x 1 $\frac{1}{8}$ x $\frac{3}{8}$	1.00
2 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	.50	5 x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1.10
3 x $\frac{3}{8}$ x $\frac{3}{8}$	.55	5 x 1 $\frac{3}{8}$ x $\frac{3}{8}$	1.30
3 x $\frac{1}{2}$ x $\frac{3}{8}$	.60	5 x 1 $\frac{1}{2}$ x $\frac{3}{4}$	1.40
3 x 1 $\frac{1}{2}$ x $\frac{1}{8}$	.75	5 $\frac{1}{2}$ x 1 $\frac{1}{8}$ x $\frac{3}{8}$	1.10
3 $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	.60	5 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1.20
3 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	.65	5 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{4}$	1.50
3 $\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{3}{8}$	.65	5 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{3}{8}$	1.25
3 $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{4}$	.75	5 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{3}{4}$	1.35
3 $\frac{1}{2}$ x 1 x $\frac{1}{8}$	.65	5 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{3}{4}$	1.60
3 $\frac{1}{2}$ x 1 $\frac{1}{8}$ x $\frac{3}{8}$	.75	5 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{3}{2}$	2.40
3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{1}{8}$	.85	6 x 1 x $\frac{3}{8}$	1.25
4 x 1 $\frac{1}{8}$ x $\frac{3}{8}$	.75	6 x 1 $\frac{1}{8}$ x $\frac{3}{8}$	1.25
4 $\frac{1}{2}$ x 1 x $\frac{3}{8}$	.75	6 x 1 $\frac{1}{2}$ x $\frac{3}{8}$	1.35
4 $\frac{1}{2}$ x 1 x $\frac{1}{2}$	.75	6 x 1 $\frac{3}{8}$ x $\frac{3}{8}$	1.35

Brass Sheaves.

Size of Sheave, Inches.	Common Bushed, Each.	Patent Roller Bushed, Each.
1 X $\frac{3}{8}$ X	\$0.07	
1 X $\frac{7}{16}$ X	.08	
1 X $\frac{1}{2}$ X	.09	
1 $\frac{1}{8}$ X $\frac{3}{8}$ X	.07	
1 $\frac{1}{8}$ X $\frac{7}{16}$ X	.08	
1 $\frac{1}{8}$ X $\frac{1}{2}$ X	.09	
1 $\frac{1}{4}$ X $\frac{3}{8}$ X	.09	
1 $\frac{1}{4}$ X $\frac{7}{16}$ X	.10	
1 $\frac{1}{4}$ X $\frac{1}{2}$ X	.11	
1 $\frac{1}{4}$ X $\frac{5}{8}$ X	.12	
1 $\frac{1}{4}$ X $\frac{3}{4}$ X	.13	
1 $\frac{3}{8}$ X $\frac{3}{8}$ X	.09	
1 $\frac{3}{8}$ X $\frac{7}{16}$ X	.10	
1 $\frac{3}{8}$ X $\frac{5}{16}$ X	.11	
1 $\frac{3}{8}$ X $\frac{3}{4}$ X	.12	
1 $\frac{3}{8}$ X $\frac{5}{8}$ X	.13	
1 $\frac{1}{2}$ X $\frac{1}{2}$ X	.13	\$0.47
1 $\frac{1}{2}$ X $\frac{3}{4}$ X	.15	.47
2 X $\frac{1}{2}$ X	.17	.49
2 $\frac{1}{4}$ X $\frac{3}{8}$ X	.24	.58
2 $\frac{1}{2}$ X $\frac{3}{8}$ X	.28	.60
2 $\frac{3}{4}$ X $\frac{3}{4}$ X	.35	.73
3 X $\frac{3}{4}$ X	.45	.76
3 X $\frac{7}{8}$ X	.45	.76
3 $\frac{1}{2}$ X $\frac{7}{8}$ X	.67	.94
3 $\frac{1}{2}$ X 1 X	.74	1.12
4 X 1 X	.90	1.20
4 $\frac{1}{4}$ X 1 X	.96	1.30
4 $\frac{3}{4}$ X 1 $\frac{1}{8}$ X	1.15	1.70
5 X 1 $\frac{1}{8}$ X	1.34	1.75
5 $\frac{1}{2}$ X 1 $\frac{1}{8}$ X	1.47	1.95
6 X 1 $\frac{1}{4}$ X	1.82	2.35
6 X 1 $\frac{1}{2}$ X	2.20	2.75
6 $\frac{1}{2}$ X 1 $\frac{1}{4}$ X	2.00	2.45
7 X 1 $\frac{1}{4}$ X	2.10	2.75
7 X 1 $\frac{1}{2}$ X	2.30	3.25
8 X 1 $\frac{3}{8}$ X	2.40	3.60

Only regular sizes for Blocks carried in stock.

Other sizes made to order.

Lignumvitae Sheaves.

Size of Sheave, Inches.	Com. Iron Bushed, Each.	Patent Roller Bushed, Each.	Size of Sheave, Inches.	Com. Iron Bushed, Each.	Patent Roller Bushed, Each.
3 x $\frac{1}{4}$ x $\frac{1}{8}$	\$0.20	\$0.55	12 x $1\frac{1}{2}$ x 1	\$1.75	\$3.85
$3\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$	.25	.65	12 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.90	3.80
$3\frac{1}{2}$ x 1 x $\frac{1}{2}$	.25	.65	12 x $1\frac{1}{2}$ x 1	1.90	4.00
$4\frac{1}{2}$ x 1 x $\frac{1}{2}$	.30	.75	12 x $1\frac{1}{2}$ x $\frac{7}{8}$	2.15	4.05
$4\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.35	1.00	12 x $1\frac{1}{2}$ x 1	2.15	4.25
$4\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.40	1.15	12 x $1\frac{1}{2}$ x $\frac{7}{8}$	2.40	4.30
$5\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.45	1.10	12 x $1\frac{1}{2}$ x 1	2.40	4.50
$5\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.50	1.25	12 x $1\frac{7}{8}$ x $\frac{7}{8}$	2.75	4.65
$6\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.55	1.35	12 x $1\frac{7}{8}$ x 1	2.75	4.85
$6\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.65	1.60	12 x 2 x 1	3.10	5.20
$7\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.70	1.65	12 x $2\frac{1}{8}$ x 1	3.50	5.60
$7\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{8}$	.85	1.80	18 x $1\frac{1}{2}$ x 1	2.20	4.30
8 x $1\frac{1}{2}$ x $\frac{5}{8}$	.90	1.90	18 x $1\frac{1}{2}$ x 1	2.45	4.55
8 x $1\frac{1}{2}$ x $\frac{5}{8}$	1.05	2.10	18 x $1\frac{1}{2}$ x 1	2.70	4.80
8 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.05	2.20	18 x $1\frac{7}{8}$ x 1	3.15	5.25
9 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.20	2.40	14 x $1\frac{1}{2}$ x 1	2.60	4.70
9 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.35	2.55	14 x $1\frac{1}{2}$ x 1	2.85	4.95
9 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.35	2.65	14 x $1\frac{1}{2}$ x 1	3.20	5.30
$9\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{7}{8}$	1.40	2.65	14 x $1\frac{7}{8}$ x 1	3.70	5.80
$9\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{7}{8}$	1.50	2.85	14 x 2 x 1	4.20	6.30
10 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.50	2.85	15 x $1\frac{1}{2}$ x 1	3.20	5.30
10 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.70	3.15	15 x $1\frac{1}{2}$ x 1	3.50	5.60
11 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.70	3.20	15 x $1\frac{1}{2}$ x 1	3.90	6.00
11 x $2\frac{1}{2}$ x 1	2.00	3.50	15 x $1\frac{7}{8}$ x 1	4.45	6.55
12 x $1\frac{1}{2}$ x $\frac{7}{8}$	1.75	3.65	15 x 2 x 1	5.00	7.10

Rules for Pricing Lignumvitae Sheaves of Irregular Dimensions.

1. Sheaves of *diameters* other than listed, but *same* thickness and pin hole, should be listed by the nearest *larger* diameter given on said list.

2. Sheaves of same *diameter and pin holes*, but of *less thickness* than listed, shall be listed same as the *regular* thickness given on said list.

3. Sheaves of same *diameter and pin holes*, but *thicker* than listed, shall be listed by adding 10 per cent. for each $\frac{1}{4}$ -inch or fractional part in *excess* of regular thickness.

4. Sheaves of same *diameter and thickness*, but smaller *pin holes* or bushings than listed, shall be listed same as *regular* sizes of pin holes and bushings.

5. Sheaves of same *diameter and thickness*, but *larger pin holes* or bushings, shall be listed by adding 10 per cent. for each $\frac{1}{4}$ -inch or fractional part in *excess* of *regular* sizes of pin holes and bushings.

Sheaves.

Galvanized Iron.

Common Bushed.



Fig. 655.

Size, Inches.	Each.
$\frac{1}{2} \times \frac{1}{4} \times \frac{1}{4}$	\$0.04
$\frac{1}{2} \times \frac{5}{16} \times \frac{1}{4}$	.04
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	.05
$1 \times \frac{1}{8} \times \frac{3}{8}$	.06
$1 \times \frac{1}{4} \times \frac{3}{8}$	.06
$1\frac{1}{4} \times \frac{1}{4} \times \frac{3}{8}$	.07
$1\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$	.08
$1\frac{1}{4} \times \frac{7}{16} \times \frac{1}{4}$	.08
$1\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$	.08

Open Iron Sheaves.

Dimensions, Inches.	Com- mon, Each.	Patent, Each.	Dimensions, Inches.	Com- mon, Each.	Patent, Each.
2½ x ¼ x ¼	\$0.12	\$0.55	4½ x ¾ x ¼	\$0.28	\$0.90
2½ x ½ x ¼	.13	.58	4½ x 1 x ¼	.29	.95
2½ x ¾ x ¼	.14	.60	4½ x 1½ x ¼	.30	1.00
2½ x 1 x ¼	.14	.60	4½ x 1¾ x ¼	.32	1.05
2½ x 1½ x ¼	.14	.65	4½ x 1¾ x ¼	.40	1.13
2½ x 1¾ x ¼	.24	.75	4½ x 1½ x ½	.35	1.05
3 x ½ x ¼	.15	.60	4½ x 1½ x ¾	.37	1.10
3 x ¾ x ¼	.15	.65	4½ x 1¾ x ¾	.40	1.15
3 x 1 x ¼	.17	.65	5 x 1 x ¼	.30	1.00
3 x 1½ x ¼	.17	.70	5 x 1½ x ¼	.36	1.10
3 x 1¾ x ¼	.18	.70	5 x 1¾ x ¼	.38	1.14
3 x 1¾ x ¼	.24	.75	5 x 1½ x ½	.40	1.15
3½ x 1¾ x ¼	.30	.90	5 x 1½ x ¾	.43	1.19
3½ x 1 x ½	.18	.70	5 x 1¾ x ¾	.45	1.25
3½ x 1½ x ½	.19	.73	5 x 1¾ x ¾	.47	1.25
3½ x 1¾ x ½	.20	.75	5 x 1½ x ¾	.50	1.30
3½ x 1¾ x ½	.20	.75	5 x 1¾ x ¾	.75	1.55
3½ x 1 x ¾	.20	.73	5½ x 1 x ¾	.35	1.15
3½ x 1 x ¾	.22	.78	5½ x 1½ x ¾	.40	1.20
3½ x 1 x ¾	.24	.86	5½ x 1½ x ¾	.45	1.25
3½ x 1¾ x ¾	.24	.80	5½ x 1½ x ¾	.48	1.30
3½ x 1¾ x ¾	.24	.85	6 x 1½ x ¾	.52	1.37
3½ x 1¾ x ¾	.30	.90	6 x 1½ x ¾	.55	1.40
3½ x 1¾ x ¾	.40	1.10	6 x 1½ x ¾	.58	1.45
3½ x 1 x ¾	.24	.85	6 x 1¾ x ¾	.62	1.55
4 x ¾ x ¼	.21	.80	6 x 1¾ x ¾	.65	1.60
4 x ¾ x ¼	.23	.85	6 x 1¾ x ¾	.65	1.60
4 x ¾ x ¼	.23	.85	6 x 1¾ x ¾	.72	1.70
4 x ¾ x ¼	.24	.90	6 x 1¾ x ¾	.75	1.75
4 x 1 x ¼	.24	.85	6 x 1¾ x ¾	.85	1.85
4 x 1 x ¼	.25	.90	6 x 1¾ x ¾	.95	1.95
4 x 1½ x ¼	.25	.90	6 x 1¾ x ¾	.98	2.00
4 x 1½ x ¼	.27	.96	6 x 2 x ¾	1.05	2.10
4 x 1¾ x ¼	.28	1.00	6 x 2½ x ¾	1.25	2.25
4 x 1½ x ½	.28	1.00	6½ x 1¾ x ¾	.58	1.45
4 x 1½ x ½	.29	1.10	6½ x 1¾ x ¾	.65	1.60
4 x 1¾ x ½	.29	1.00	6½ x 1½ x ¾	.60	1.50
4½ x 1¾ x ¾	.50	1.25	6½ x 1½ x ¾	.65	1.60
4½ x 1 x ¾	.30	.90	6½ x 1½ x ¾	.75	1.70
4½ x 1½ x ¾	.33	1.00	7 x 1½ x ¾	.65	1.55
4½ x 1¾ x ¾	.35	1.05	7 x 1½ x ¾	.70	1.60
4½ x 1¾ x ¾	.26	.85	7 x 1½ x ¾	.75	1.69

Open Iron Sheaves.

Dimensions, Inches.	Com- mon, Each.	Patent, Each.	Dimensions, Inches.	Com- mon, Each.	Patent, Each.
7 x 1½ x 1	\$0.80	\$1.75	10 x 2 x 1	\$1.95	\$4.00
7 x 1½ x 1	.88	1.80	10 x 2 x 1½	2.00	4.20
7 x 1½ x 1	.95	1.90	10 x 2 x 1½	2.05	4.40
7 x 1½ x 1	1.05	2.00	10 x 2½ x 1½	2.30	5.40
7 x 1½ x 1	1.15	2.25	10 x 2½ x 1½	2.65	5.45
7 x 2 x 1	.95	2.40	10 x 2½ x 1½	3.00	5.50
7 x 2 x 1	1.00	2.60	10 x 2½ x 1	3.00	5.30
7 x 2½ x 1	1.35	2.60	11 x 1½ x 1	1.55	3.30
7½ x 1½ x 1	.80	1.75	11 x 1½ x 1	1.60	3.50
7½ x 1½ x 1	.85	1.85	11 x 1½ x 1	2.00	4.00
7½ x 1½ x 1	.90	1.95	11 x 2 x 1½	2.10	4.75
7½ x 1½ x 1	.95	2.05	11 x 2 x 1½	2.15	5.00
7½ x 1½ x 1	1.00	2.05	11 x 2½ x 1½	3.00	6.00
7½ x 1½ x 1	1.05	2.15	11 x 2½ x 1½	3.05	6.75
7½ x 1½ x 1	1.15	2.25	11 x 2½ x 1½	3.70	6.90
7½ x 2 x 1	1.25	2.50	11 x 2½ x 1½	4.00	7.00
8 x 1½ x 1	.95	1.95	11½ x 2½ x 1	3.75	6.00
8 x 1½ x 1	1.10	2.10	12 x 1½ x 1	1.75	3.80
8 x 1½ x 1	1.15	2.15	12 x 1½ x 1	1.80	4.00
8 x 1½ x 1	1.30	2.25	12 x 1½ x 1	2.00	4.50
8 x 1½ x 1	1.35	2.35	12 x 1½ x 1½	2.05	4.75
8 x 1½ x 1	1.57	2.75	12 x 2 x 1	2.25	5.00
8 x 1½ x 1	1.62	3.00	12 x 2 x 1½	2.35	5.50
8 x 2 x 1	1.70	3.30	12 x 2½ x 1½	2.80	6.00
8 x 2 x 1	1.75	3.50	12 x 2½ x 1	4.00	6.25
8 x 2 x 1	1.80	3.70	12 x 2½ x 1½	4.00	7.00
8 x 2½ x 1	1.90	3.15	13 x 2½ x 1½	4.50	7.50
8 x 2½ x 1	2.00	3.70	14 x 2 x 1½	3.50	6.00
9 x 1½ x 1	1.00	2.15	14 x 2½ x 1½	4.00	7.00
9 x 1½ x 1	1.15	2.30	14 x 2½ x 1½	5.00	8.00
9 x 1½ x 1	1.50	3.00	15 x 1½ x 1	2.70	5.00
9 x 1½ x 1	1.65	3.45	15 x 1½ x 1½	2.75	5.25
9 x 2 x 1	1.80	3.50	15 x 1½ x 1½	2.80	5.50
9 x 2 x 1	1.80	3.60	15 x 1½ x 1	3.00	5.50
9 x 2 x 1	1.90	4.00	15 x 1½ x 1½	3.05	5.75
9 x 2½ x 1	1.90	3.75	15 x 1½ x 1½	3.10	6.00
9 x 2½ x 1	2.40	4.50	15 x 1½ x 1	3.20	6.50
9 x 2½ x 1	2.50	4.75	15 x 1½ x 1½	3.30	6.75
9 x 2½ x 1	2.55	4.80	15 x 1½ x 1½	3.50	7.00
10 x 1½ x 1	1.40	2.80	15 x 1½ x 1½	3.60	7.25
10 x 1½ x 1	1.60	3.20	15 x 2 x 1½	4.00	7.50
10 x 1½ x 1	1.65	3.40	18 x 1½ x 1½	5.00	8.50
			18 x 2 x 1½	6.00	9.50

Phosphor Bronze or Metaline Bushed.

Dimensions.				Price, Each.	Dimensions.				Price, Each.
2	x	$\frac{1}{2}$	x $\frac{1}{2}$	\$0.60	7 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x $\frac{1}{2}$	\$2.50
2 $\frac{1}{2}$	x	$\frac{3}{8}$	x x $\frac{3}{8}$	.70	7 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x $\frac{3}{8}$	2.60
2 $\frac{1}{2}$	x	$\frac{3}{8}$	x x x $\frac{3}{8}$	.80	7	x	1 $\frac{1}{2}$	x x x $\frac{3}{8}$	2.60
3	x	$\frac{3}{8}$	x x x x $\frac{3}{8}$	.90	7	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.75
3	x	$\frac{3}{8}$	x x x x $\frac{1}{2}$	1.20	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.00
3	x	$\frac{3}{8}$	x x x x $\frac{5}{8}$	1.30	7	x	1 $\frac{1}{2}$	x x x x $\frac{5}{8}$	2.80
3 $\frac{1}{2}$	x	$\frac{1}{2}$	x x x x $\frac{1}{2}$	1.35	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.95
3 $\frac{1}{2}$	x	1	x x x x $\frac{1}{2}$	1.40	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.10
3 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.50	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.00
3 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.60	7	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.15
4 $\frac{1}{2}$	x	1	x x x x $\frac{1}{2}$	1.50	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.60
4 $\frac{1}{2}$	x	1	x x x x $\frac{3}{8}$	1.65	7	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.90
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.60	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.24
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.75	7	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.30
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.65	7	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.50
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.85	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.75
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.75	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.85
4 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.90	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.85
5	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.75	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.95
5	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.85	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.15
5	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.75	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.00
5	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.90	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.15
5	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.85	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.30
5	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.00	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.25
5	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.95	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.40
5	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.10	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.35
5	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.40	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.50
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.80	8	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.40
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	1.95	8	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.60
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	1.90	8	x	2	x x x x $\frac{3}{8}$	3.50
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.00	8	x	2	x x x x $\frac{1}{2}$	3.70
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.00	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.95
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.10	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.10
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.10	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.05
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.25	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.25
5 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.30	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.50
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.10	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.25
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.25	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.40
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.40	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.65
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.25	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	4.25
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.40	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.35
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.50	9	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.50
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.40	9	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.75
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.55	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.95
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.75	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.10
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.95	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.25
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.65	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.35
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	2.85	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{3}{8}$	3.10
6 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	2.95	9 $\frac{1}{2}$	x	1 $\frac{1}{2}$	x x x x $\frac{1}{2}$	3.25

Iron or Lignumvitae Sheaves.

Phosphor Bronze or Metaline Bushed.

Dimensions.	Price.	Dimensions.	Price.
9½ x 1½ x ½	\$3.35	11 x 1½ x ½	\$3.90
9½ x 1½ x 1	3.65	11 x 1½ x 1	4.15
9½ x 1½ x 1¼	3.35	11 x 1½ x 1¼	4.10
9½ x 1½ x 1½	3.50	11 x 1½ x 1½	4.30
9½ x 1½ x 1¾	3.65	11 x 1½ x 1¾	4.25
9½ x 1½ x 2	3.45	11 x 1½ x 2	4.40
9½ x 1½ x 2¼	3.60	11 x 1½ x 2¼	5.00
9½ x 1½ x 2½	3.85	11 x 2 x 1	4.40
9½ x 1½ x 3	3.55	11 x 2 x 1¼	4.75
9½ x 1½ x 3½	3.70	11 x 2½ x 1	5.25
9½ x 1½ x 4	4.00	11 x 2½ x 1¼	5.50
9½ x 1½ x 4½	3.65	11 x 2½ x 1½	5.60
9½ x 1½ x 5	3.75	11 x 2½ x 1¾	5.95
9½ x 1½ x 5½	4.00	11 x 2½ x 2	6.50
9½ x 2 x 1	4.00	11 x 2½ x 2¼	7.00
9½ x 2 x 1¼	4.25	12 x 1½ x 1	4.25
10 x 1½ x 1	3.10	12 x 1½ x 1¼	4.50
10 x 1½ x 1¼	3.25	12 x 1½ x 1½	4.50
10 x 1½ x 1½	3.35	12 x 1½ x 1¾	4.75
10 x 1½ x 1¾	3.60	12 x 1½ x 2	4.90
10 x 1½ x 2	3.50	12 x 1½ x 2¼	5.25
10 x 1½ x 2¼	3.60	12 x 1½ x 2½	5.80
10 x 1½ x 2½	3.80	12 x 1½ x 3	6.50
10 x 1½ x 3	3.50	12 x 2 x 1	5.25
10 x 1½ x 3½	3.70	12 x 2 x 1¼	5.50
10 x 1½ x 4	3.85	12 x 2 x 1½	6.25
10 x 1½ x 4½	3.60	12 x 2 x 1¾	7.00
10 x 1½ x 5	3.80	12 x 2½ x 1	5.50
10 x 1½ x 5½	4.00	12 x 2½ x 1¼	5.80
10 x 1½ x 6	3.80	12 x 2½ x 1½	6.50
10 x 1½ x 6½	3.90	12 x 2½ x 1¾	6.50
10 x 1½ x 7	4.20	12 x 2½ x 2	6.00
10 x 1½ x 7½	4.75	12 x 2½ x 2¼	7.00
10 x 1½ x 8	4.10	12 x 2½ x 2½	7.50
10 x 1½ x 8½	4.30	12 x 3 x 1	8.00
10 x 1½ x 9	4.85	12 x 3 x 1¼	8.50
10 x 2 x 1	4.25	13 x 1½ x 1	6.00
10 x 2 x 1¼	4.50	13 x 2 x 1	6.50
10 x 2 x 1½	5.25	13 x 2½ x 1	7.00
10 x 2 x 1¾	6.25	13 x 3 x 1	9.00
10 x 2 x 2	7.00	13½ x 2½ x 1	9.00
10 x 2½ x 1	4.75	14 x 1½ x 1	5.50
10 x 2½ x 1¼	5.00	14 x 2 x 1	6.75
10 x 2½ x 1½	5.75	14 x 2 x 1¼	7.75
10 x 2½ x 1¾	5.25	14 x 2½ x 1	8.00
10 x 2½ x 2	5.50	14 x 2½ x 1¼	10.00
11 x 1½ x 1	3.75	14 x 3 x 1	10.00
11 x 1½ x 1¼	4.00		

Wire Rope Sheaves.

Iron.

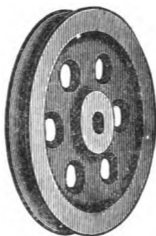


Fig. 656.

Size.	Thickness at Hub, Inches.	Size Wire, Inches.	Common.	Metaline Bushed.
6 x 1 x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	\$0.75	\$2.10
6 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	.90	2.50
7 x 1 x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.00	2.30
7 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.10	2.65
8 x 1 x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.15	2.85
8 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.25	3.25
8 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.55	3.75
9 x 1 x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.30	3.25
9 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.75	4.00
9 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	1.85	4.30
9 x $1\frac{1}{2}$ x $\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	2.05	4.50
10 x $1\frac{1}{2}$ x 1	$1\frac{1}{8}$	$\frac{1}{8}$	2.65	4.00
10 x $1\frac{1}{2}$ x 1	$1\frac{1}{8}$	$\frac{1}{8}$	2.75	4.50
12 x $1\frac{1}{2}$ x $1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	3.25	6.00
14 x $1\frac{1}{2}$ x $1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	4.20	7.75
16 x $1\frac{1}{2}$ x $1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	4.40	8.50
16 x $1\frac{1}{2}$ x $1\frac{1}{8}$	2	1	6.50	9.00
18 x $1\frac{1}{2}$ x $1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	6.75	10.00
18 x $1\frac{1}{2}$ x $1\frac{1}{8}$	2	1	7.85	10.90
20 x $1\frac{1}{2}$ x $1\frac{1}{8}$	2	$\frac{1}{8}$	8.05	12.25
22 x $1\frac{1}{2}$ x $1\frac{1}{8}$	2	$\frac{1}{8}$	9.65	13.60
24 x $1\frac{1}{2}$ x $1\frac{1}{8}$	2	$\frac{1}{8}$	11.90	16.50
24 x 2 x $1\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$	10.00	16.50

Where larger pin hole is required, add 50 cents for each one-eighth.

Chain Sheaves.

Solid Iron.

Dia- meter, Inches.	Thick- ness, Inches.	For Dia. Pin, Inches.	For Chain, Inches.	Common Iron Bushes, Each.	Patent Roller Bushes, Each.	Self-lubri- cating Metalline Bushes, Each.
3½	1½	½	½	\$0 80	\$0.90	\$1.60
4	1½	½	½	.37	1.00	1.75
4	1½	¾	¾ or ⅞	.40	1.10	1.95
4½	1½	¾	¾ or ⅞	.50	1.30	2.40
5	1½	¾	¾	.50	1.30	2.15
5½	1½	¾	¾ or ⅞	.70	1.75	2.75
6	1½	¾	¾	.70	1.60	2.40
6	1½	¾	¾ or ⅞	.80	1.75	2.60
6	1½	¾	¾ or ⅞	.85	1.85	2.85
6	1½	¾	¾ or ⅞	1.00	2.00	3.25
7	1½	¾	¾	.80	1.75	2.75
7½	1½	¾	¾ or ⅞	1.25	2.65	3.75
8	1½	¾	¾ or ⅞	1.20	2.50	3.50
8	1½	¾	¾ or ⅞	1.25	2.60	3.65
8	1½	¾	¾ or ⅞	1.30	2.75	3.90
8	1½	¾	¾ or ⅞	1.35	2.85	4.10
8	2	1	¾ or ⅞	1.60	3.00	4.25
8½	2	1	¾ or ⅞	2.25	4.50	6.00
9	1½	¾	¾	1.40	3.00	4.00
9	1½	¾	¾ or ⅞	1.50	3.25	4.30
9	2	1	¾ or ⅞	2.00	4.40	5.90
9	2	1	¾ or ⅞	2.10	4.75	6.60
10	1½	¾	¾ or ⅞	2.05	3.40	4.50
10	1½	¾	¾ or ⅞	2.30	4.50	5.75
10	2	1	¾ or ⅞	2.80	4.75	6.25
10	2	1	¾ or ⅞	2.90	5.25	7.00
10	2½	1	¾ or ⅞	3.15	5.60	7.30
10	2½	1	¾ or ⅞	3.25	6.00	7.80
10	2½	1	¾ or ⅞	4.25	7.00	9.00
11	3	1½	¾ or ⅞	4.00	7.50	10.00
12	2	1	¾ or ⅞	3.30	5.50	7.00
12	2½	1	¾ or ⅞	3.80	6.50	8.25
12	2½	1	¾ or ⅞	3.90	7.00	8.80
12	2½	1	¾ or ⅞	4.40	7.25	9.00
12	2½	1	¾ or ⅞	4.50	7.50	9.50
12	2½	1	¾ or ⅞	5.00	7.75	10.00
14	2	1	¾ or ⅞	3.85	7.25	8.75
14	2	1	¾ or ⅞	3.95	7.50	9.25
14	2½	1	¾ or ⅞	4.15	7.75	9.70

Made to order only.

Flange Bushings.

With Composition or Steel Rollers.

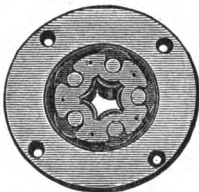


Fig. 670.

Dia. of Hole or Pin, Inches.	Thick-ness or Depth, Inches.	Comp. Shell, Comp. Roller, Each.	Iron Shell, Steel Roller, Each.	Dia. of Hole or Pin, Inches.	Thick-ness or Depth, Inches.	Comp. Shell, Comp. Roller, Each.	Iron Shell, Steel Roller, Each.
3/8	2/8	\$0.26	\$0.26	1	1 1/8	\$1.55	\$1.05
	1 1/8	.28	.28		1 1/4	1.75	1.10
	3/4	.30	.30		1 1/2	1.85	1.15
	7/8	.30	.30		1 3/4	2.05	1.20
1/2	3/4	.32	.32	1 1/2	2	2.25	1.30
	7/8	.34	.34		2 1/4	3.00	2.25
	1	.36	.36		1 1/2	2.10	1.20
	1 1/8	.40	.40		1 3/8	2.22	1.30
5/8	3/4	.46	.45	1 1/2	1 1/4	2.32	1.40
	7/8	.50	.47		1 1/2	2.70	1.60
	1	.56	.49		2	3.20	1.80
	1 1/8	.62	.55		2 1/4	3.30	1.60
3/4	7/8	.64	.55	1 1/2	1 1/4	3.52	1.80
	1	.68	.62		1 1/2	3.75	2.00
	1 1/8	.75	.70		2	4.00	2.20
	1 1/4	.82	.75		2 1/4	4.20	2.50
7/8	1 1/8	.90	.80	1 1/2	2 1/4	4.70	2.70
	1 1/4	.96	.80		1 1/4	4.07	2.10
	1 1/2	.99	.80		1 1/2	4.50	2.30
	1 3/8	1.02	.80		2	5.00	2.60
1	1 1/4	1.09	.85	1 1/2	2 1/4	5.40	2.90
	1 1/2	1.15	.90		2 1/4	5.80	3.20
	1 3/4	1.30	.95		1 1/4	5.40	2.80
	1 7/8	1.38	1.00		2	6.00	3.20
1	1 1/2	1.52	1.05	1 1/2	2 1/4	6.50	3.60
	1 3/4	2.00	1.20		2 1/4	7.00	4.00
	1 7/8	1.40	1.00		2 1/2	7.50	4.30
	2						

Composition Shells with Steel Rollers, same list as
Composition Shells with Composition Rollers.

Metaline Self-lubricating Bushings.



Fig. 67z.

Dia. Inside, Inch.	Length, Inches.	Dia. Outside, Inches.	Each.	Dia. Inside, Inch.	Length, Inches.	Dia. Outside, Inches.	Each.	Dia. Inside, Inch.	Length, Inches.	Dia. Outside, Inches.	Each.
1	1	1	\$0.60	1 1/4	1 1/4	1 1/4	\$1.74	1 1/4	2 1/4	1 1/4	\$3.30
1	1 1/4	1	.64	1 1/4	1 1/2	1 1/4	1.84	1 1/4	2 1/4	1 1/4	3.44
1	1 1/2	1	.64	1 1/4	1 3/4	1 1/4	1.92	1 1/4	2 1/4	1 1/4	3.60
1	1 3/4	1	.72	1 1/4	2	1 1/4	2.00	1 1/4	2 1/4	1 1/4	3.76
1	2	1	.80	1 1/4	2 1/4	1 1/4	2.10	1 1/4	3	1 1/4	3.92
1 1/4	1 1/4	1 1/4	.88	1 1/4	1 1/2	1 1/2	2.28	1 1/2	1 1/4	1 1/2	2.88
1 1/4	1 1/2	1 1/4	.72	2	2	1 1/2	2.48	1 1/2	1 1/2	1 1/2	2.44
1 1/4	1 3/4	1 1/4	.76	2 1/4	2 1/4	1 1/2	2.58	1 1/2	1 1/2	1 1/2	2.50
1 1/4	2	1 1/4	.84	2 1/4	2 1/2	1 1/2	2.68	1 1/2	1 1/2	1 1/2	2.60
1 1/2	1 1/4	1 1/2	1.02	2 1/4	2 3/4	1 1/2	2.78	1 1/2	1 1/2	1 1/2	2.72
1 1/2	1 1/2	1 1/2	1.20	2 1/4	3	1 1/2	2.90	1 1/2	1 1/2	1 1/2	2.84
1 1/2	1 3/4	1 1/2	1.28	1	1 1/4	1 1/2	1.60	2	2	2	2.88
1 1/2	2	1 1/2	1.38	1 1/4	1 1/2	1 1/2	1.80	2 1/4	2 1/4	2 1/4	3.08
1 3/4	1 1/4	1 3/4	1.00	1 1/4	1 3/4	1 3/4	1.90	2 1/4	2 1/4	2 1/4	3.24
1 3/4	1 1/2	1 3/4	1.12	1 1/4	2	1 3/4	2.16	2 1/4	2 1/4	2 1/4	3.42
1 3/4	1 3/4	1 3/4	1.28	1 1/4	2 1/4	1 3/4	2.22	2 1/4	2 1/4	2 1/4	3.60
1 3/4	2	1 3/4	1.34	1 1/4	2 3/4	1 3/4	2.28	2 1/4	2 1/4	2 1/4	3.78
1 3/4	2 1/4	1 3/4	1.44	1 1/4	3	1 3/4	2.54	2 1/4	2 1/4	2 1/4	3.96
1 3/4	2 1/2	1 3/4	1.52	2	2	2	2.82	2 1/4	2 1/4	2 1/4	4.14
1 3/4	2 3/4	1 3/4	1.58	2 1/4	2 1/4	2	2.90	3	3	3	4.30
1 3/4	3	1 3/4	1.64	2 1/4	2 1/2	2	2.96	3 1/4	3 1/4	3 1/4	4.46
2	1 1/4	2	1.68	2 1/4	2 3/4	2	3.02	3 1/4	3 1/4	3 1/4	4.60
2	1 1/2	2	1.84	2 1/4	3	2 1/4	3.10	3 1/4	3 1/4	3 1/4	4.74
2	1 3/4	2 1/4	1.24	2 1/4	3 1/4	2 1/4	3.16	3 1/4	3 1/4	3 1/4	4.88
2	2	2 1/4	1.34	2 1/4	3 1/2	2 1/4	3.22	1 1/2	1 1/2	1 1/2	2.80
2	2 1/4	2 1/4	1.50	2 1/4	3 3/4	2 1/4	3.30	1 1/2	1 1/2	1 1/2	2.88
2	2 1/2	2 1/4	1.54	2 1/4	4	2 1/4	3.40	1 1/2	1 1/2	1 1/2	2.96
2	2 3/4	2 1/4	1.58	3	1 1/4	1 1/2	3.40	1 1/2	1 1/2	1 1/2	3.08
2 1/4	1 1/4	2 1/4	1.66	1 1/2	1 1/4	1 1/2	2.54	1 1/2	1 1/2	1 1/2	3.26
2 1/4	1 1/2	2 1/4	1.80	1 1/2	1 1/2	1 1/2	2.60	1 1/2	1 1/2	1 1/2	3.46
2 1/4	1 3/4	2 1/4	2.00	1 1/2	1 3/4	1 1/2	2.68	2	2	2	3.68
2 1/4	2	2 1/4	2.24	1 1/2	2	1 1/2	2.78	2 1/4	2 1/4	2 1/4	3.88
2 1/4	2 1/4	2 1/4	2.48	2	2	2	2.88	2 1/4	2 1/4	2 1/4	4.06
2 1/4	2 1/2	2 1/4	2.68	2	2 1/4	2	2.98	2 1/4	2 1/4	2 1/4	4.24
2 1/4	2 3/4	2 1/4	2.84	2 1/4	2 1/2	2 1/4	3.10	2 1/4	2 1/4	2 1/4	4.42
2 1/4	3	2 1/4	2.96	2 1/4	2 3/4	2 1/4	3.20	3	3	3	4.96

Chain Blocks.

Simplex.

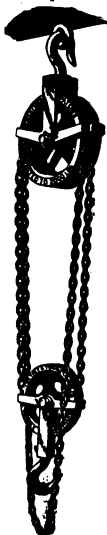


Fig. 672.

Duplex.



Fig. 673.

Triplex.



Fig. 674.

The **SIMPLEX** obtains its power through a *differential sheave*, and is the simplest and cheapest chain block made. It may be used under the worst conditions of dirt and exposure, and will always operate.

The **DUPLEX** obtains its power through a *worm wheel and screw*, and its action is very smooth and easy. It requires good lubrication, but, as its mechanism is enclosed in an oil-tight box, it may be used under any ordinary conditions. It is especially convenient where portability is desired.

The **TRIPLEX** obtains its power through a *train of spur gearing*, and hence has a higher mechanical efficiency than any other similar device ever invented. A man can do more work with it than with any other block, and do it more easily. Where the use is frequent and the conditions reasonable, this is the *best*, and ultimately the most economical, of all portable hoists.

Simplex.

For rough and occasional use.

Capacity in Tons.	Price Complete.	*Hoist in Feet.	Extra Hoist, Price Per Foot.	Minimum Distance Between Hooks in Inches.	Net Weight in Lbs.	§Chain Pull.	
						Lbs.	Feet.
½	\$10.00	6	\$1.40	17½	22	72	18
¾	12.00	7	1.50	20½	30	122	24
1	15.00	8	1.60	26½	51	216	30
1½	18.00	8½	1.70	32½	81	246	36
2	20.00	9	1.80	39	122	308	42
3	30.00	9½	2.00	44½	180	557	38

Duplex.

For portable and more frequent use.

Capacity in Tons.	Price Complete.	*Hoist in Feet.	Extra Hoist, Price Per Foot.	Minimum Distance Between Hooks in Inches.	Net Weight in Lbs.	§Chain Pull.	
						Lbs.	Feet.
½	\$25.00	8	\$1.50	18½	43	68	40
1	30.00	8	1.55	16½	57	87	59
1½	40.00	8	1.60	19½	76	94	80
2	50.00	9	1.65	21½	104	115	93
3½	80.00	10	1.90	25½	210	140	138
5	125.00	12	2.00	30½	340	145	195
7	160.00	12	3.00	33½	370	160	275
10	240.00	12	3.20	45½	570	160	390

Triplex.

For constant use and best economy.

Capacity in Tons.	Price Complete.	*Hoist in Feet.	Extra Hoist, Price Per Foot.	Minimum Distance Between Hooks in Inches.	Net Weight in Lbs.	§Chain Pull.	
						Lbs.	Feet.
½	\$35.00	8	\$1.15	15	51	62	21
1	45.00	8	1.20	17	89	82	31
1½	60.00	8	1.25	19½	133	110	35
2	70.00	9	1.30	24	203	120	42
3	90.00	10	1.75	32	206	114	69
4	110.00	10	1.85	37	307	124	84
5	140.00	12	2.40	45	397	110	126
6	165.00	12	2.55	46	417	130	126
8	200.00	12	2.95	51	505	135	168
10	240.00	12	3.50	57	622	140	210

*Figures denote height in feet which blocks, with regular lengths of chain, will hoist from level on which operator stands.

§Figures denote the pull in pounds required to lift the full load, and the number of feet of hand chain which must be handled to lift the load one foot.

Galvanized Blocks.

Malleable Iron.

One Eye, One Sheave.



Fig. 721.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
1	1½	¼	\$1.00
2	1½	$\frac{5}{16}$	1.75
3	2½	⅜	2.75
4	2½	½	4.00
5	3½	⅝	5.25

Two Eyes, One Sheave.



Fig. 722.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
101	1½	¼	\$1.00
102	1½	$\frac{5}{16}$	1.75
103	2½	⅜	2.75
104	2½	½	4.00
105	3½	⅝	5.25

Galvanized Blocks.

Malleable Iron.

One Eye, Two Sheaves.



Fig. 723.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
11	1½	½	\$1.50
22	1½	$\frac{5}{16}$	2.25
33	2½	¾	3.50
44	2½	¾	5.00
55	3½	¾	6.50

Two Eyes, Two Sheaves.



Fig. 724.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
111	1½	½	\$1.50
122	1½	$\frac{5}{16}$	2.25
133	2½	¾	3.50
144	2½	¾	5.00
155	3½	¾	6.50

Galvanized Blocks.

Malleable Iron Shells.

Wrought Iron Hooks.

Hook, One Sheave.



Fig. 725.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
1½	1½	½	\$3.00
2½	1¾	$\frac{5}{16}$	3.75
3½	2½	¾	4.75
4½	2¾	¾	6.00
5½	3½	¾	7.50

Hook, Becket, One Sheave.



Fig. 726.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
101½	1½	½	\$3.00
102½	1¾	$\frac{5}{16}$	3.75
103½	2½	¾	4.75
104½	2¾	¾	6.00
105½	3½	¾	7.50

Galvanized Blocks.

Malleable Iron Shells.

Wrought Iron Hooks

Hook, Two Sheaves.



Fig. 727.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
11½	1½	½	\$3.50
22½	1½	$\frac{5}{16}$	4.25
33½	2½	$\frac{1}{2}$	5.50
44½	2½	½	7.00
55½	3½	½	8.75

Hook, Becket, Two Sheaves.



Fig. 728.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
111½	1½	½	\$3.50
122½	1½	$\frac{5}{16}$	4.25
133½	2½	$\frac{1}{2}$	5.50
144½	2½	½	7.00
155½	3½	½	8.75

Brass Blocks.

One Eye, One Sheave.



Fig. 729.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
0	1	$\frac{3}{16}$	\$1.80
1	$1\frac{1}{4}$	$\frac{1}{4}$	2.40
2	$1\frac{1}{2}$	$\frac{5}{16}$	3.00
3	$2\frac{1}{4}$	$\frac{3}{8}$	4.50
4	$2\frac{1}{2}$	$\frac{1}{2}$	6.00

One Eye, Two Sheaves.



Fig. 730.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
00	1	$\frac{3}{16}$	\$2.40
11	$1\frac{1}{4}$	$\frac{1}{4}$	3.30
22	$1\frac{1}{2}$	$\frac{5}{16}$	4.50
33	$2\frac{1}{4}$	$\frac{3}{8}$	6.00
44	$2\frac{1}{2}$	$\frac{1}{2}$	9.00

Brass Blocks.

Swivel Eyes.

Single Sheaves.



Fig. 731.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
201	1½	¼	\$2.40
203	1½	⅝	3.00
205	2¼	¾	4.50

Double Sheaves.



Fig. 732.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
202	1½	¼	\$3.80
204	1½	⅝	4.50
206	2¼	¾	6.00

Deck Blocks.

SINGLE.



Fig. 733.

Number.	Dia. of Rope, Inches.	Galvanized Iron, Each.	Plain Brass, Each.	Polished Brass, Each.
1	$\frac{1}{4}$	\$0.35	\$0.65	\$1.00
2	$\frac{1}{2}$	.70	1.25	1.75
3	$\frac{3}{4}$	1.00	1.75	2.25
4	1	1.40	2.50	3.00

DOUBLE.

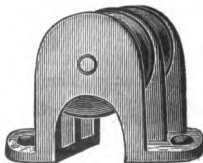


Fig. 734.

Number.	Dia. of Rope, Inches.	Galvanized Iron, Each.	Plain Brass, Each.	Polished Brass, Each.
5	$\frac{1}{2}$	\$0.70	\$0.95	\$1.50
6	$\frac{3}{4}$	1.20	2.00	2.50

Deck Snatch Blocks.

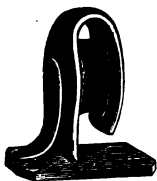


Fig. 735.

Number.	Dia. of Rope, Inches.	Galv'd Iron, Each.	Brass, Each.
1	$\frac{1}{4}$	\$0.25	\$0.50
2	$\frac{3}{8}$	.30	.60

Side Blocks.



Fig. 736.

Number.	Dia. of Rope, Inches.	Galvanized Iron, Each.	Brass, Each.
1	$\frac{5}{16}$	\$0.35	\$0.85
2	$\frac{1}{2}$	.45	.95
3	$\frac{3}{4}$	.70	1.20

Manila Rope.

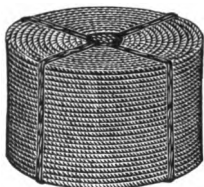


Fig. 740.

Circumference.	Diameter, Inches.	Weight per 100 Feet, Pounds.	Weight per Coil, Pounds.	Per Pound.
Fine 6 thd.	$\frac{8}{18}$	3	33	\$0.01 $\frac{1}{2}$ above
6 thd.	$\frac{1}{2}$	4	44	.01 [base.
9 thd.	$\frac{5}{8}$	5	55	.01
12 thd.	$\frac{2}{3}$	6	60	.00 $\frac{1}{2}$
1 $\frac{1}{2}$ In.	$\frac{7}{8}$	7	75	} Base.
1 $\frac{1}{2}$	$\frac{1}{2}$	8	90	
1 $\frac{1}{2}$	$\frac{9}{8}$	11	105	
2	$\frac{1}{2}$	14	140	
2 $\frac{1}{2}$	$\frac{1}{2}$	17	170	
2 $\frac{1}{2}$	$1\frac{1}{8}$	21	200	
2 $\frac{1}{2}$	$\frac{1}{2}$	25	240	
3	1	30	275	
3 $\frac{1}{2}$	$1\frac{1}{8}$	35	325	
3 $\frac{1}{2}$	$1\frac{1}{2}$	41	360	
3 $\frac{1}{2}$	$1\frac{3}{8}$	47	410	
4	$1\frac{1}{2}$	53	460	
4 $\frac{1}{2}$	$1\frac{1}{2}$	60	510	
4 $\frac{1}{2}$	$1\frac{7}{8}$	67	585	
4 $\frac{1}{2}$	$1\frac{1}{2}$	75	640	
5	$1\frac{1}{2}$	83	720	
5 $\frac{1}{2}$	$1\frac{1}{2}$	100	835	
6	$1\frac{1}{2}$	119	1050	
6 $\frac{1}{2}$	2	130	1150	

Sisal Rope.

Circumference.	Diameter.	Price.
3 thd. laid.	$\frac{3}{8}$ inch.	1 $\frac{1}{2}$ cent above base.
6 thd. fine.	$\frac{3}{8}$ inch.	1 $\frac{1}{2}$
6 thd.	$\frac{1}{2}$ inch.	1
9 thd.	$\frac{5}{8}$ inch.	1
12 thd.	$\frac{3}{4}$ inch.	$\frac{1}{2}$
1 $\frac{1}{2}$ inch.	$\frac{7}{8}$ and larger.	Base.

Tarred Rope.

Marline,
Housetine,
Rounding,
Ratline,

2 Yarn Hemp Spun Yarn.
3 Yarn Hemp Spun Yarn.

Bolt Rope.

Manila Bolt Rope,

Russia Bolt Rope.

Cotton Rope.

No. 1 or $\frac{1}{2}$ inch diameter.

No. 2 or $\frac{5}{8}$ inch diameter.

No. 3 or $\frac{3}{4}$ inch diameter.

$\frac{7}{8}$ inch diameter.

$\frac{1}{2}$ inch diameter.

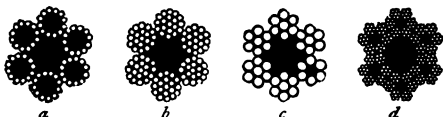
$\frac{5}{8}$ inch diameter.

$\frac{3}{4}$ inch diameter.

Wire Rope.

CROSS-SECTIONS OF WIRE ROPE.

Showing the various methods of manufacture as regards the number of wires composing the strand.



a, Galvanized Compound Running Rope for Ships' Rigging, the several strands, each composed of twelve wires laid about a hemp center, in turn laid about a hemp center.

b, Transmission Rope, the several strands, each composed of seven wires, laid about a hemp center.

c, Hoisting Rope, the several strands, each composed of nineteen wires, laid about a hemp center.

d, Tiller Rope, composed of six independent wire ropes, laid about a hemp center.

Galvanized Running Wire Rope.

Flexible.

Circumference, Inches.	Diameter, Inches.	IRON. Price per Foot.	STEEL. Price per Foot.	Breaking Strain, Tons.	
				Iron.	Steel.
3	1	\$0.25	\$0.33†	10	23
2½	¾	.22	.28	8	19
2½	⅞	.18†	.24	6	16
2½	¾	.15	.20	5½	13
2	¾	.11	.15	5	10
1½	⅝	.10	.13	4	7
1½	¾	.08†	.11†	2½	4½
1½	⅞	.08	.10†	1½	2½
1	⅞	.07	.09	1	1½

Galvanized Wire Rope.



Fig. 741.

For Ships' Rigging and Guys for Derricks.

Circumference, Inches.	Diameter, Inches.	Price per Foot.		Weight of 100 Feet, Pounds.	Breaking Strain, Tons.
		7 Wires per Strand.	12 Wires per Strand.		
5½	1 ¾	\$0.52	\$0.54	442	43
5½	1 ⅝ +	.48	.50	408	40
5	1 ⅝	.44	.47	367	35
4¾	1 ½	.40	.44	350	33
4½	1 ⅜ +	.36	.40	317	30
4½	1 ⅜	.32	.34½	275	26
4	1 ¼ +	.28	.30	238	23
3¾	1 ¼	.24½	.27	213	20
3¾	1 ⅓	.21	.23½	179	16
3½	1 +	.19	.20½	158	14
3	1	.16	.17½	133	12
2¾	¾	.13½		113	10
2½	¾ +	.11½		92	9
2½	¾	.10		75	8
2	⅝	.08½		59	7
1¾	⅝	.07		42	5
1½	½	.06		34	3½
1½	⅞	.05½		29	2½
1½	⅝	.04		19	2¼
1	⅝	.03		14½	2
¾	⅞	.02½		10½	1
¾	½	.02		8	¾
⅝	⅞	.01½		5	⅝
½	⅞	.01½		4	⅝

Tiller Rope.

¾	⅝	¾	⅞	1	⅞	¾	¾	¾	1	inch dia.
\$0.09	.10	.12	.18	.14	.18	.22	.28	.34	.42	per foot.

Galvanized Yacht Rigging.

Cast Steel.



Fig. 742

Circumference, Inches.	Diameter, Inches.	Price per Foot.			Weight of 100 Feet, Pounds.	Breaking Strain, Tons.
		7 Wires, per Strand.	12 Wires, per Strand.	19 Wires, per Strand.		
3½	1 ¼	\$0.72	\$0.72	\$0.72	233	45
3½	1 ⅜	.64	.64	.64	200	40
3½	1 ½	.58	.59	.60	175	36
3½	1 ⅞	.52	.53	.54	154	33
3½	1	.46	.47½	.49	167	30
2½	¾	.36	.37½	.39	113	22
2½	⅞	.31½	.33	.34	92	17
2½	1 ⅛	.27	.28½	.30	75	13½
2	¾	.20	.22½	.24½	59	10
1½	⅝	.16	.19	.21½	42	8
1½	⅞	.13	.16	.19	34	6
1½	7/8	.11	.15	.18½	30	5½
1½	1	.09	.13½	.18	21	4
1	⅞	.07	.11	.15½	17	3

Hoisting Wire Rope.



Fig. 743.

Made of 6 Strands of 19 Wires Each, Laid Around a Hemp Center.

Diameter, Inches.	Circumference, Inches.	IRON. Price per Foot.	STEEL. Price per Foot.	Weight per Foot with Hemp Center, Pounds.	Minimum Size of Drum or Sheave, Feet.
2½	6½	\$1.52	\$1.84	8.00	13
2	6	1.20	1.44	6.30	12
1½	5½	1.04	1.20	5.25	10
1½	5	.82	.96	4.10	8½
1½	4½	.74	.86	3.65	7½
1½	4½	.62	.72	3.00	7
1½	4	.52	.60	2.50	6½
1½	3½	.42	.50	2.00	6
1	3½	.32	.38	1.58	5½
¾	2½	.24	.30	1.20	4½
¾	2½	.20	.23	.88	4
¾	2	.15	.18	.60	3½
⅝	1½	.13	.16	.44	2½
½	1½	.10	.14	.35	2½
⅜	1½	.09½	.13	.29	2
¼	1½	.09	.12	.26	1½

Transmission and Standing Wire Rope.



Fig. 743-a.

Made of 6 Strands of 7 Wires Each, Laid Around a Hemp Center.

Diameter, Inches.	Circumference, Inches.	IRON. Price per Foot.	STEEL. Price per Foot.	Weight per Foot with Hemp Center, Pounds.	Minimum Size of Drum or Sheave, Feet.
1½	4½	\$0.66	\$0.78	3.37	13
1½	4½	.56	.66	2.77	12
1½	3½	.46	.56	2.28	10½
1½	3½	.38	.46	1.82	9½
1	3	.30	.36	1.50	8½
¾	2½	.23	.28	1.12	7½
¾	2½	.18	.20	.88	6½
¾	2½	.15	.17	.70	6
¾	1½	.13	.14	.57	5½
¾	1½	.10	.11	.41	4½
¾	1½	.08	.09½	.31	4
¾	1½	.07	.08	.23	3½
¾	1½	.06	.06½	.19	2½
¾	1	.05	.05½	.16	2½
¾	¾	.04	.04½	.125	2½

Wire Rope Clips.

Black.

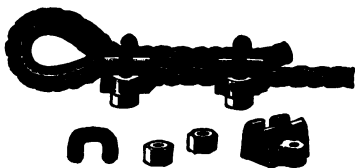


Fig. 744.

Dia. of Rope, Inches.	Each.	Dia. of Rope, Inches.	Each.
$\frac{3}{8}$	\$0.25	1	\$0.50
$\frac{1}{2}$	.30	$1\frac{1}{8}$	.50
$\frac{5}{8}$	.35	$1\frac{1}{4}$	.50
$\frac{3}{4}$	.40	$1\frac{3}{8}$	.55
$\frac{7}{8}$	.45	$1\frac{1}{2}$	.60

Wire Rope Clamps.

Black.

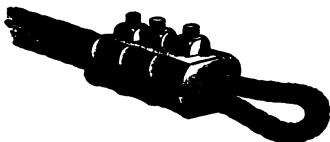
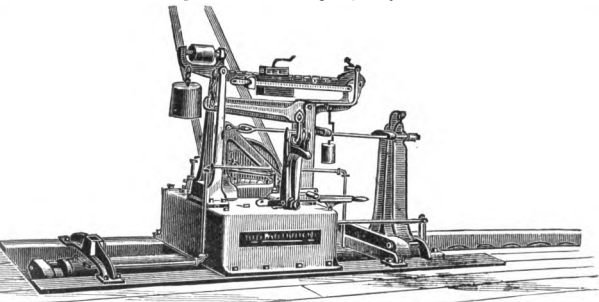


Fig. 745.

Dia. of Rope, Inches.	Each.	Dia. of Rope, Inches.	Each.
$\frac{3}{8}$	\$0.95	1	\$1.75
$\frac{1}{2}$	1.10	$1\frac{1}{8}$	2.05
$\frac{5}{8}$	1.15	$1\frac{1}{4}$	2.15
$\frac{3}{4}$	1.80	$1\frac{3}{8}$	2.25
$\frac{7}{8}$	1.60		

Weights, Tests and Breaking Strains of Chain.



Chain Tester in use at our Works.

Size, Inches.	Weight per Fathom, Pounds.	Proof Test, Pounds.	Coil or Cable. Breaking Strain, Pounds.	B. B. Crane. Breaking Strain, Pounds.	B. B. B. Crane. Breaking Strain, Pounds.
$\frac{3}{8}$	3	1,000	2,000	2,200	2,500
$\frac{1}{4}$	4 $\frac{1}{2}$	1,500	3,000	3,200	3,400
$\frac{5}{16}$	6 $\frac{1}{2}$	3,000	5,500	6,000	7,000
$\frac{3}{8}$	9	4,000	8,000	8,500	9,000
$\frac{7}{16}$	11 $\frac{1}{2}$	6,000	10,000	12,000	13,000
$\frac{1}{2}$	15	8,500	15,000	16,000	17,500
$\frac{9}{16}$	18	10,000	20,000	21,000	22,000
$\frac{5}{8}$	23	12,500	22,000	24,000	26,000
$\frac{11}{16}$	27	14,000	28,000	29,000	31,000
$\frac{3}{4}$	33 $\frac{1}{2}$	16,000	30,000	32,000	36,000
$\frac{13}{16}$	38	18,000	35,000	36,000	39,000
$\frac{7}{8}$	47	22,000	38,000	40,000	42,000
$\frac{15}{16}$	53	24,000	42,000	43,000	46,000
1	62	26,000	47,000	48,500	50,000
$1\frac{1}{16}$	68	28,000	50,000	52,000	56,000
$1\frac{1}{8}$	74	31,000	56,000	58,000	62,000
$1\frac{3}{8}$	82	36,000	66,000	68,000	72,000
$1\frac{1}{2}$	90	39,000	71,000	73,000	79,000
$1\frac{5}{8}$	99	42,000	76,000	78,000	84,000
$1\frac{3}{4}$	108	46,000	86,000	88,000	93,000
$1\frac{7}{8}$	118	52,000	94,000	96,000	102,000
$1\frac{1}{2}$	130	58,000	106,000	108,000	114,000
$1\frac{9}{8}$	142	62,000	114,000	117,000	122,000
$1\frac{1}{2}$	156	66,000	120,000	123,000	130,000

Close Link Chain.

Self-Colored, Blacked, or Galvanized.

Regular or Straight Link.



Fig. 747.

We make the following qualities of Close Link Chain.

Coil or Cable.—Made from the best refined iron.

B. B. Crane.—Made from extra re-worked iron.

B. B. H. Crane.—Made from the finest quality of re-worked iron, and equal in every way to English B. B. Crown Chain.

We also make a special quality of Steel Chain.

Dredge Chain, Boom Chain, Pitch Chain, Conveyor Chain, Dimension Chain, and Special Chains of any kind made to order.

Our Chain is all carefully tested and inspected before shipping.

In ordering Chain that is required to work over a Sprocket or a Recessed Wheel, it is necessary to send the wheel, or an exact pattern of it, to us, so that each link may be fitted in it as made, as the ordinary Crane Chain links are not sufficiently accurate in dimensions, and the slightest difference in the size of one link will make the chain unfit for use.

Any good Crane Chain, however, will work over the ordinary grooved Chain Wheel that does not have separate recesses for each link.

The average working load of a Chain should be about one-fourth to one-third of its breaking strength, or a little over one-half the proof test.

All Chain in use should be kept well oiled so as to lessen the friction on it; it is also necessary, to prolong the life of a Chain, that it be annealed at least once a year, and all the links showing wear be cut out and replaced with new ones.

Twisted Link.



Fig. 748.

Twisted Link Chain, up to and including $1\frac{7}{8}$ inch, same price as Straight Link Chain.

Stud Link Cable Chain.



Fig. 749.

Self-Colored, Blacked, or Galvanized.

In shots of lengths desired, complete with shackles.

Size, Inches.	Weight per Fathom, Pounds.	Size of Links.		Proof Test, Pounds.	Breaking Strain, Pounds.
		Length, Inches.	Width, Inches.		
$\frac{1}{8}$	32	$4\frac{1}{2}$	$2\frac{1}{2}$	20,000	32,000
$1\frac{1}{8}$	36	$4\frac{1}{2}$	3	24,000	35,000
$\frac{7}{8}$	43	5	$3\frac{1}{2}$	27,000	39,000
$1\frac{5}{8}$	50	$5\frac{1}{2}$	$3\frac{1}{2}$	31,000	44,000
1	57	$5\frac{1}{2}$	$3\frac{1}{2}$	36,000	48,000
$1\frac{1}{8}$	64	$6\frac{1}{2}$	$3\frac{1}{2}$	40,000	52,000
$1\frac{1}{4}$	71	$6\frac{1}{2}$	$4\frac{1}{2}$	45,000	58,000
$1\frac{3}{8}$	76	$6\frac{1}{2}$	$4\frac{1}{2}$	51,000	68,000
$1\frac{1}{2}$	83	$7\frac{1}{2}$	$4\frac{1}{2}$	56,000	74,000
$1\frac{5}{8}$	92	$7\frac{1}{2}$	$4\frac{1}{2}$	62,000	80,000
$1\frac{3}{4}$	102	$7\frac{1}{2}$	$4\frac{1}{2}$	63,000	90,000
$1\frac{7}{8}$	110	$8\frac{1}{2}$	$5\frac{1}{2}$	74,000	99,000
$1\frac{1}{2}$	122	$8\frac{1}{2}$	$5\frac{1}{2}$	81,000	112,000
$1\frac{9}{8}$	133	$8\frac{1}{2}$	$5\frac{1}{2}$	88,000	120,000
$1\frac{5}{4}$	145	$9\frac{1}{2}$	$5\frac{1}{2}$	95,000	126,000
$1\frac{11}{8}$	152	$9\frac{1}{2}$	6	102,000	136,000
$1\frac{3}{4}$	165	10	$6\frac{1}{2}$	110,000	146,000
$1\frac{7}{8}$	179	$10\frac{1}{2}$	$6\frac{1}{2}$	118,000	160,000
$1\frac{7}{8}$	195	$10\frac{1}{2}$	$6\frac{1}{2}$	126,000	172,000
$1\frac{5}{4}$	209	$10\frac{1}{2}$	7	135,000	182,000
2	225	$11\frac{1}{2}$	$7\frac{1}{2}$	144,000	196,000
$2\frac{1}{8}$	280	12	$7\frac{1}{2}$	162,000	220,000
$2\frac{1}{4}$	325	13	$8\frac{1}{2}$	182,000	244,000
$2\frac{3}{8}$	375	$13\frac{1}{2}$	$8\frac{1}{2}$	202,000	274,000
$2\frac{1}{2}$	425	14	9	224,000	300,000

Chain Links.

Malleable Iron.



Fig. 750.

Dia. of Iron, Inches.	Japanned, Per Dozen.	Galvanized, Per Dozen.
$\frac{1}{4}$	\$1.00	\$1.50
$\frac{5}{16}$	1.10	1.65
$\frac{3}{8}$	1.20	1.80
$\frac{7}{16}$	1.30	1.95
$\frac{1}{2}$	1.40	2.10
$\frac{5}{8}$	1.75	2.60
$\frac{3}{4}$	2.40	3.60
$\frac{7}{8}$	3.75	5.60
1	5.00	7.50

This is the best kind of link made for repairing Chain. After the link is inserted, the points are riveted down, thus forming a solid link.

Lap Links.

Wrought Iron.



Fig. 750-a.

Dia. of Iron, Inches.	Black, Per Doz.	Galvanized, Per Dozen.
$\frac{3}{16}$	\$0.20	\$0.30
$\frac{1}{4}$	.25	.40
$\frac{5}{16}$	.35	.50
$\frac{3}{8}$	.50	.70
$\frac{7}{16}$	.65	1.10
$\frac{1}{2}$	.85	1.40

Chain Shackles.

With Screw.



Fig. 751.

Dia. of Iron, Inches.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$3.00	\$2.75
$\frac{5}{16}$	3.00	2.75
$\frac{3}{8}$	3.25	3.00
$\frac{7}{16}$	3.75	3.50
$\frac{1}{2}$	4.50	4.00
$\frac{3}{4}$	5.75	5.00
$\frac{1}{2}$	6.75	5.50
$\frac{3}{4}$	8.75	7.00
1	13.00	10.00
$1\frac{1}{4}$	20.00	16.00
$1\frac{1}{2}$	25.00	20.00

With Pin.



Fig. 752.

Dia. of Iron, Inches.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$2.75	\$2.50
$\frac{5}{16}$	2.75	2.50
$\frac{3}{8}$	3.00	2.75
$\frac{7}{16}$	3.60	3.40
$\frac{1}{2}$	4.00	3.50
$\frac{3}{4}$	5.00	4.50
$\frac{1}{2}$	6.00	5.00
$\frac{3}{4}$	8.00	6.25
1	12.00	9.50
$1\frac{1}{4}$	16.00	12.00
$1\frac{1}{2}$	20.00	19.00

Anchor Shackles.

With Screw.



Fig. 753.

Dia. of Iron, Inches.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{4}$	\$3.00	\$2.75
$\frac{5}{16}$	3.00	2.75
$\frac{3}{8}$	3.25	3.00
$\frac{7}{16}$	3.75	3.50
$\frac{1}{2}$	4.50	4.00
$\frac{5}{8}$	5.75	5.00
$\frac{3}{4}$	6.75	5.50
$\frac{7}{8}$	8.75	7.00
1	13.00	10.00
$1\frac{1}{4}$	20.00	16.00
$1\frac{1}{2}$	25.00	22.00

With Pin.



Fig. 754.

Dia. of Iron, Inches.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{4}$	\$2.75	\$2.50
$\frac{5}{16}$	2.75	2.50
$\frac{3}{8}$	3.00	2.75
$\frac{7}{16}$	3.65	3.40
$\frac{1}{2}$	4.25	3.75
$\frac{5}{8}$	5.50	4.75
$\frac{3}{4}$	6.50	5.50
$\frac{7}{8}$	8.70	7.25
1	14.00	11.00
$1\frac{1}{4}$	19.00	15.00
$1\frac{1}{2}$	25.00	20.00

Anchors.

Iron Stock.

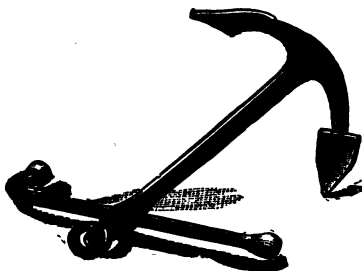


Fig. 757.

Weights.	Galv'd. Per Pound.	Black. Per Pound.
5, 8 pounds, . . .	\$0.18	\$0.15
10, 15, 18 pounds, . . .	.15	.12
20 pounds and heavier,	.12	.10

Wood Stock.

Fish.

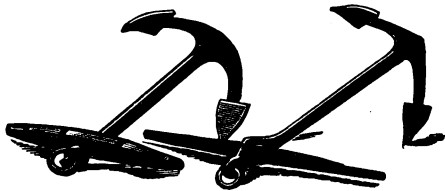


Fig. 758.

Fig. 759.

Price quoted upon application.

Folding Anchors.

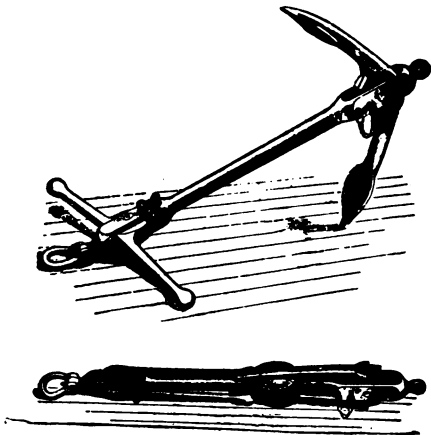


Fig. 760.

Weight, Pounds.	Each.	Weight, Pounds.	Each.
4	\$2.80	12	\$6.75
6	3.40	16	7.90
8	4.50	20	10.15
10	5.65		

Approximate Weight of Larger Sizes.

26, 30, 44, 55, 78, 106, 135 and 160 pounds.

Price, \$0.45 per pound.

Mushroom Anchors.

Galvanized or Black.

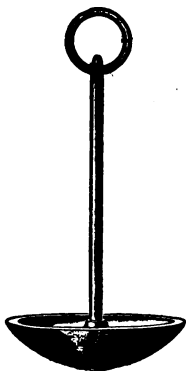


Fig. 761.

Weights.

10, 15, 20, 25 pounds.

35, 50, 75, 100 pounds.

150 pounds.

Grappels.

Galvanized or Black.

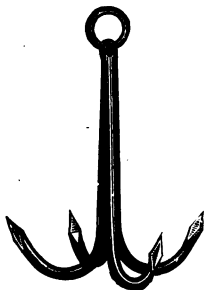


Fig. 762.

Five Prongs,

Eye at lower end for tripping.

Weights.

5, 8, 10, 12, 15 pounds.

Larger sizes made to order.

Net or Trawl Anchors.

Shifting Stock.

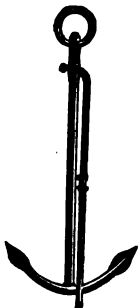


Fig. 763.

Stiff Stock.

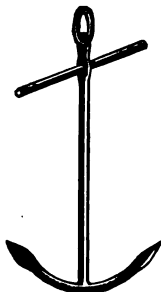


Fig. 763a.

Galvanized or Black.

4, 5, 6, 8, 10, 12, 15, 18, 20, 25 pounds.

Anchor Fish Hooks.

Dia. of Iron,
Inches.

$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, 1,

Galv'd Black
Per Pound.

\$0.19 \$0.15



Fig. 764.

Ratchet Gypsy Windlasses.

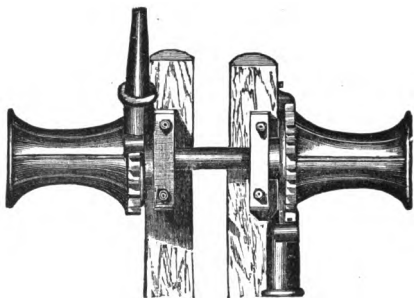


Fig. 765.

No.	Chain.	Dia. of Head on Outside End, Inches.	Length of Head, Inches.	Dia. at Middle, Inches.	Width of Bitts Outside, Inches.	Each.
0		4 $\frac{1}{4}$	5	2 $\frac{1}{4}$	8	\$17.00
1		5 $\frac{1}{4}$	6	3	9	19.00
2		6	6 $\frac{1}{4}$	3 $\frac{1}{4}$	10	21.00
3		7	7 $\frac{1}{4}$	4 $\frac{1}{4}$	11	25.00
A	$\frac{1}{4}$	8 $\frac{1}{4}$	8 $\frac{1}{4}$	5 $\frac{1}{4}$	12	32.00
B	$\frac{1}{4}$	10	10	7	14	40.00
C	$\frac{1}{4}$	12	12	7 $\frac{1}{4}$	15	52.00
D	$\frac{1\frac{1}{8}}$	13	13	7 $\frac{1}{4}$	16	64.00
E	$\frac{1}{4}$	13 $\frac{1}{4}$	14 $\frac{1}{4}$	8	17	68.00
F	$\frac{1\frac{3}{8}}$	14 $\frac{1}{4}$	16 $\frac{1}{4}$	8 $\frac{1}{4}$	18	86.00
G	$\frac{1}{4}$	15 $\frac{1}{4}$	18	9 $\frac{1}{4}$	19	110.00
H	1	16	20	10	20	140.00

Half Ratchet Gypsy Windlasses.

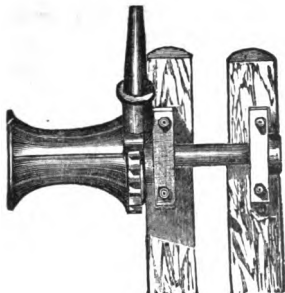


Fig. 766.

No.	Chain.	Dia. of Head on Outside End, Inches.	Length of Head, Inches.	Dia. at Middle, Inches.	Width of Bitts Outside, Inches.	Each.
1		5½	6	3	9	\$12.00
2		6	6½	3½	10	14.00
3		7	7½	4½	11	18.00
A	½	8½	8½	5½	12	24.00
B	½	10	10	7	14	28.00
C	½	12	12	7½	15	32.00
D	¾	13	13	7½	16	38.00
E	¾	13½	14½	8	17	52.00
F	¾	14½	16½	8½	18	64.00
G	¾	15½	18	9½	19	86.00
H	1	16	20	10	20	100.00

Pump Brake Ratchet Gypsy Windlasses.

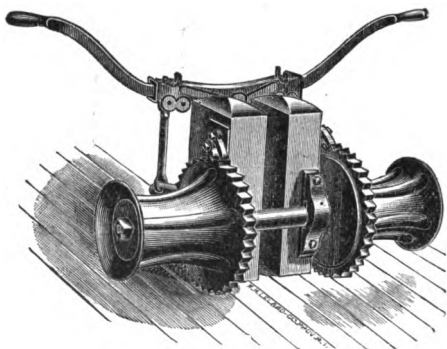


Fig. 767.

No.	Chain.	Dia. of Head on Outside End, Inches.	Length of Head, Inches.	Dia. at Middle, Inches.	Width of Blits Outside, Inches.	Each.
1		5½	6	3	9	\$48.00
2		6	6½	3½	10	52.00
3		7	7½	4½	11	56.00
A	†	8½	8½	5½	12	60.00
B	†	10	10	7	14	76.00
C	†	12	12	7½	15	96.00
D	† ¹¹ / ₁₆	13	13	7½	16	112.00
E	†	13½	14½	8	17	130.00
F	† ³ / ₁₆	14½	16½	8½	18	152.00
G	†	15½	18	9½	19	170.00
H	1	16	20	10	20	250.00

Capstans.



Fig. 768.

Simple Capstans.

No.	Dia. of Barrel, Inches.	Dia. of Base, Inches.	Height, Inches.	Weight, Pounds.	Each.
1	7	19	20½	180	\$44.60
2	8	23	27½	280	57.35
3	8½	24½	31½	420	68.00
4	9½	29½	34½	560	85.00
5	10½	32	37½	700	102.00
6	11½	34	39½	910	131.75
7	12½	36½	43	1150	165.75

Power Capstans.

Power Capstans are worked by hand the same as Simple Capstans, but they have internal gear which gives them more power.

No.	Dia. of Barrel, Inches.	Dia. of Base, Inches.	Height, Inches.	Weight, Pounds.	Each.
11	7	19	20½	260	\$57.35
12	8	23	27½	420	72.25
13	8½	24½	31½	560	91.35
14	9½	29½	34½	850	127.50
15	10½	32	37½	1090	153.00
16	11½	34	39½	1300	170.00
17	12½	36½	43	1650	223.10

Quadrant Steerers.

Style A.

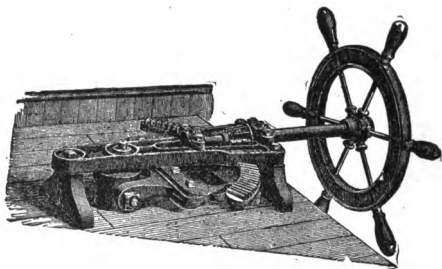


Fig. 769.

This is the best Quadrant Steerer for small yachts and boats ever made. It is strong, simple and effective. It takes but little room and is easily put on.

The quadrant is adjustable, and may be placed at the most convenient angle to the rudder-head. The jaws can also be adjusted to any size of rudder-head.

The shafts are brass covered, and the wheel is galvanized.

There should be a wrought band on the rudder-head, which we do not furnish, as it must fit the post. We can furnish a devise for iron rudder-head when required.

When ordering steerer for iron rudder-head, give diameter of post.

Numbe	Dia. of Wheel, Inches.	Length of Shaft from Center of Rudder- head to Wheel, Inches.	Each.
1	20	21	\$36.00
2	25	26	45.00

Quadrant Steerers.

Style B.

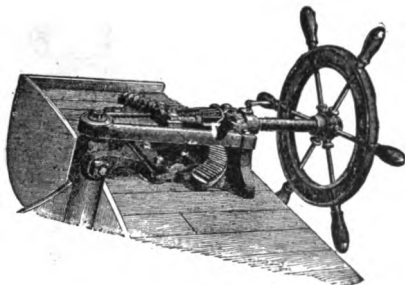


Fig. 770.

This style is intended for rudder on the outside, or when there is no room to get fastening aft of Rudder Head. See list on preceding page.

Style C.

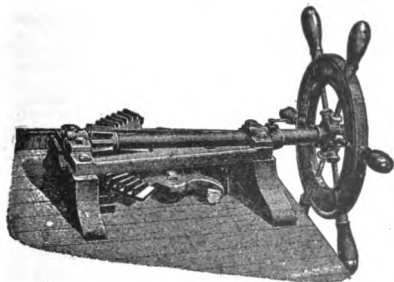


Fig. 771.

This style is intended for rudder when there is space aft of Rudder Head and a saving of room is required forward. See list on preceding page.

Quadrant Steerers.

With Attachment for Inclined Rudder-Head.

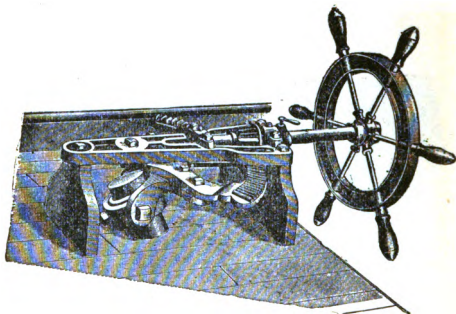


Fig. 772.

The above cut represents an Improvement for Inclined Rudder-heads, attached to style A, (it can also be attached to styles B and C), so that the steerer may be the same level as the deck, and the rudder-head in any position from perpendicular to an angle of 22 degrees. It consists of two wrought iron bands on the rudder-head, one outside of the other, and bolted at right angles to the bolts in the jaws of quadrant. It is simple in construction and effective in its results, and will be appreciated by yachtmen and others who have been obliged to use a tiller on account of rake of rudder-head and can now use a steerer.

In ordering, please give size of Rudder-head.

Number.	Attachment Alone, Each.	Complete with Steerer, Each.
1	\$6.75	\$42.75
2	9.00	54.00

In ordering, state whether attachment is wanted for styles A, B or C.

Screw Steerers.

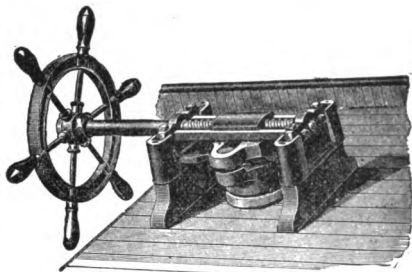


Fig. 773.

This Steerer is quick-working, holds the rudder in place at any angle, is simple in its construction, and requires no repairs. It has less friction and back-lash than any other steerer, making it the most durable one in the market.

There is a center pin for rudder head which keeps it in place, giving a steady motion to rudder.

It is rubber cushioned, giving it elasticity in case of sudden jerk, and cannot be put out of order by rising of rudder.

It takes up little room, and is easily adjusted.

A reverse motion can be had by changing pin to opposite side.

We guarantee every steerer to give entire satisfaction.

Number.	Dia. of Rudder Head, Inches.	Dia. of Wheel, Inches.	Each.
1	2 to 3½	20	\$56.00
2	4 and 4½	25	67.25
3	5 and 5½	28	78.50
4	6 and 6½	30	89.75
5	7 and 7½	36	101.00
6	8 and 8½	42	123.50

Steering Wheels.

Iron.



Fig. 774.

Number.	Dia. of Wheel, Inches.	No. of Spokes.	Each.
1	12	6	\$5.65
2	16	6	10.15
3	20	6	11.25
4	22	6	12.40
5	25	6	14.65
6	28	6	16.90
7	30	8	20.25
8	36	8	27.00
9	42	8	31.50
10	48	8	36.00

12-inch Wheel is Galvanized.

Fancy Wood Steering Wheels.

Rosewood Spokes and Rim.

Brass Check and Hub.

Number.	Dia. of Wheel, Inches.	Number of Spokes.	Each.
11	19	5	\$27.00
12	24	6	33.75
13	27	6	45.00
14	30	8	63.00
15	36	8	78.75

Steering Wheels.

With Drum.



Fig. 775.

No.	Dia. of Wheel, Inches.	Dia. of Drum, Inches.	Length of Drum, Inches.	Each.
16	12	2½	2½	\$9.00
17	16	3	3½	11.25
18	16	3	3½	18.00

Nos. 16 and 17 have a Galvanized Iron Wheel.

No. 18 has a Galvanized Iron Wheel with Wood Handles.

Steering Wheels.

With Drum and Boxes.

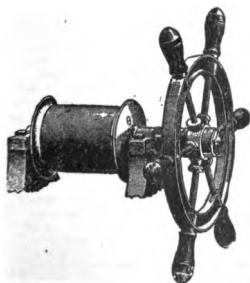


Fig. 776.

No.	Dia. of Wheel, Inches.	Dia. of Drum, Inches.	Length of Drum, Inches.	Each.
19	20	4½	5	\$22.50
20	22	4½	6	27.00
21	25	6	7	33.75
22	28	6½	8½	40.50
23	30	7	10	45.00
24	36	8	12	56.25
25	42	9	14	67.50

Bottom Suction Pumps.

Loud's Patent.
Diaphragm. Frictionless and Non-chokable.

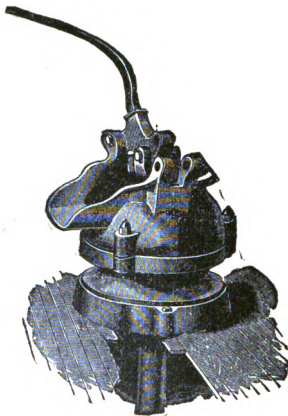


Fig. 777.

Number.	Iron Pipe.	Capacity per Hour, Gallons.	Each.
1	2½	1500	\$18.00
2	3	3500	24.00

3-inch Iron Pipe, \$0.40 per foot.

It is well known that the diaphragm, as a means of lifting water, has this great superiority over the piston or plunger pumps, that the friction is reduced to the smallest possible limit. In all piston or plunger pumps a great part of the labor applied is expended in overcoming the friction of the tightly-fitting piston or plunger against the sides of the pump-chamber. With a diaphragm there is none of this friction to overcome; there being no friction, the "discharge of water" is very much greater for the force exerted than that of any other pump.

The diaphragm is made of rubber and can be replaced at a very small cost. In case of emergency a round piece of leather or several layers of canvas can be used for a diaphragm.

This pump is not affected by grain, sand, coal-dust, mud, gravel, sewage, sanitary deposits, or any semi-liquid matter, but will pump water containing such substances without choking or wearing the pump. It is simple in construction, seldom gets out of order, and is easily repaired by any one if it does. It is especially desirable for use on board vessels, barges, in factories, on railroads and farms, or wherever it is desired to raise as much water as possible with the least amount of labor.

Power attachments can also be easily applied to this pump.

Side Suction Pumps.

Diaphragm. Loud's Patent.
Frictionless and Non-chokable.

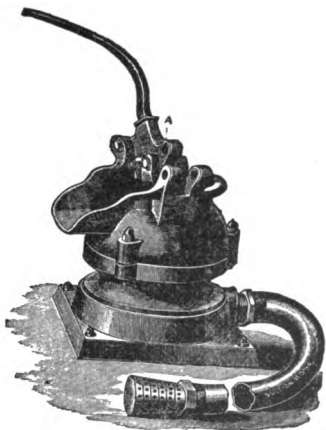


Fig. 778.

Number.	Suction Hose.	Capacity per Hour, Gallons.	Each.
1	2½	1500	\$20.00
2	3	3500	26.00

Suction Hose.

3-inch Suction Hose on iron rings, \$1.75 per foot.

Suction Hose Connections.

Brass Nipples, \$2.00
Couplings, 5.50
Strainer, 3.50

Per Set Complete, \$10.66.

The Side Suction Pump is similar in construction to the bottom suction pump, the only difference being the side inlet.

This style is especially desirable for use by sewer contractors, foundation or bridge builders, or in waterworks.

It is easily moved from place to place.

Bilge Pumps.

Hand Suction.

Galvanized Wrought Iron. Soldered Joints.



Inside Diameter, Inches.	Price 5 feet long and shorter, Each.	Add Extra for lengths longer than 5 feet, Per Foot.
1½	\$2.75	\$0.55
2	3.00	.60
2½	3.25	.65
3	3.50	.70
3½	3.75	.75
4	4.00	.80
4½	4.50	.90
5	6.00	1.20

Fig. 779.

These Pumps are made of heavy black iron and galvanized after being made up, consequently there are no raw edges to corrode, and we consider them the best pump on the market.

Fog Horns.

Tin, with Wood Mouthpiece.



Fig. 780.

Number.	Length, Inches.	Per Dozen.
1	24	\$6.75
2	35	8.25
3	40	10.50

Compasses.

Spirit.

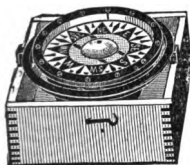


Fig. 781.

No.	Dia. of Box, Inches.	Dia. of Card, Inches.	Each.
0	4½	2	\$10.00
1	6	3	20.00
2	8	4	25.00
4	10	5½	28.00
5	11	6½	31.00
6	12	7½	37.00

Dry.

In Brass Box.



Fig. 782.

No.	Dia. of Box, Inches.	Dia. of Card, Inches.	Each.
8	3½	3	\$4.15

Dry.

In Wood Box.

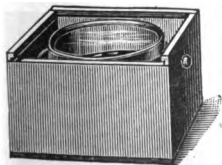


Fig. 783.

No.	Dia. of Box, Inches.	Dia. of Card, Inches.	Each.
9	6	3	\$6.75
10	7	4	7.50
11	8	5	9.75
12	10	7	10.50

Binnacles.

With Cylinder and Flange.



Fig. 784.

No.	Dia. Inches.	Head, Each.	Head and Flange, Each.	Head, Flange and Cylinder, Each.
1	7 $\frac{1}{4}$	\$60.00	\$70.00	\$80.00
2	10	70.00	80.00	90.00
3	11	80.00	90.00	100.00
4	12	90.00	100.00	110.00
5	13 $\frac{1}{2}$	100.00	110.00	120.00

Desk Binnacles.

Mahogany. With Lamp on Side.

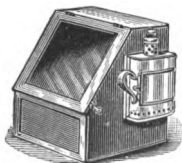


Fig. 785.

No.	Dia. of Box, Inches.	Each.
6	6 $\frac{1}{2}$ x 6 $\frac{1}{2}$	\$20.00
7	9 x 9	24.00
8	11 $\frac{1}{2}$ x 11 $\frac{1}{2}$	30.00
9	13 x 13	36.00
10	15 x 15	42.00

Boat Binnacle.

Polished Brass. Complete with Spirit Compass.



Fig. 786.

No.	Dia. of Box, Inches.	Each.
11	5 $\frac{1}{2}$ x 5 $\frac{1}{2}$	\$50.00
12	7 x 7	65.00

Boatswain's Call or Whistle.

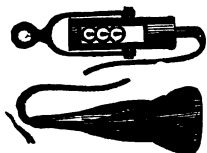
Polished Silver.



Fig. 787.

\$6.40 each.

Taffrail Logs.



Taffrail Logs, including
200 feet of Braided Line
and one Rotator,

\$30.00 each.

Extra Rotators, 6.00 each.

Extra Lines, 2.80 each.

Fig. 788.

Binnacle Light.



Fig. 789.

Number.	Size of Glass, Inches.	Each.
1	4½ x 3½	\$2.50
2	4½ x 3½	3.00
3	5½ x 4½	3.50

Ship's Clocks.

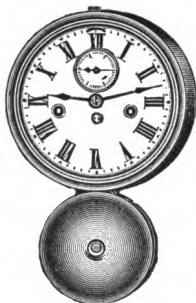


Fig. 790.

Nickel Plated Case.

1 Day.

Dial, . 6 inches.

Height, 10½ inches.

Strikes "Eight Bells," the same as they are rung on board ship.

\$7.50 each.

Flash Lights.

Tin.



Fig. 790-a.

\$15.00 per dozen.

Extra Cages, \$4.50 per dozen.

Masthead Lights.



Fig. 790-b.

This Light is intended for large steamers.
It has a fresnal glass surface, 9 x 22 inches.

Galvanized,	\$28.00 each.
Brass,	35.00 each.

Bow Lights.

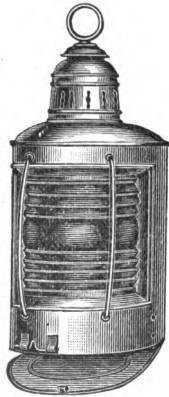


Fig. 791.

Number.	Height, Inches.	Size of Glass, Inches.	Fresnal.	
			Galvanized, Each.	Brass, Each.
0	10½	4½	\$5.00	\$6.75
1	13½	4½	5.25	9.00
2	15½	6	6.00	10.00
3	18½	8	12.00	16.00

Side Lights.



Fig. 792.

No.	Height, Inches.	Size of Glass, Inches.	Galvanized.		Brass.	
			Plain Glass, Per Pair.	Fresnal, Per Pair.	Plain Glass, Per Pair.	Fresnal, Per Pair.
00	10½	4½	\$3.75	\$6.50	\$6.75	\$9.50
0	12	5	5.00	6.75	9.00	9.75
1	18	5½	5.25	7.00	10.00	11.00
1½	14½	6	6.75	9.00	14.00	16.00
2	16½	6½		10.50		18.00
3	17½	7		21.00		30.00

Anchor Lights.

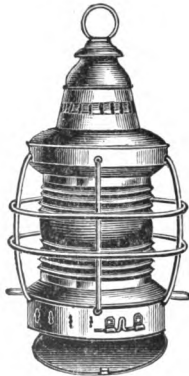


Fig. 793.

No.	Height, Inches.	Size of Glass, Inches.	White Fresnel.		Ruby and Green Fresnel.	
			Galv'd, Each.	Brass, Each.	Galv'd, Each.	Brass, Each
0	11½	4½	\$8.00	\$5.00		
1	13	4½	3.00	5.00	\$4.50	\$6.50
2	15	6	5.25	10.00	7.00	11.75
3	20	8	10.50	15.00	13.50	18.00

Globe Anchor Lights.

A good and substantial light for vessel use, made of galvanized iron and brass.



Fig. 794.

Dia. of Globe, Inches.	Plain Globe.		Ruby or Green Globe.	
	Galv'd, Per Dozen.	Brass, Per Dozen.	Galv'd, Per Dozen.	Brass, or Copper, Per Doz.
6	\$24.00	\$48.00	\$32.00	\$56.00
7	27.00	54.00	36.00	63.00
8	30.00	60.00	40.00	70.00
9	45.00	.....	40.00	.....
10	90.00	.....	105.00	.....

Navy Lanterns.

We claim these Lanterns to be the cheapest and best in the world. The globe is very heavy, is adjustable and easily replaced. The 6-inch is well adapted for a small anchor or riding light, and will give satisfaction in every respect.



Fig. 795.

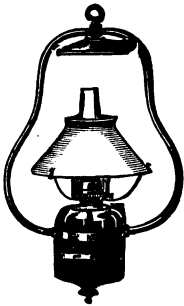
Dia. of Globe, Inches.	With Bottom.		Without Bottom.	
	Galv'd, Per Dozen.	Brass, Per Dozen.	Galv'd, Per Dozen.	Brass, Per Dozen.
4½	\$15.75	\$34.50	\$13.50	\$27.00
6	18.75	40.00		

Globes.

Diameter, Inches.	White, Per Dozen.	Ruby, Per Dozen.	Green, Per Dozen.
4½	\$1.88	\$13.50	\$4.50
6	2.25	13.50	11.25

Cabin Lamps.

Brass.



Frame is 21 inches high
and 13 inches across.

Shade is 10 inches diam-
eter.

\$7.50 each.

Fig. 796.

Stateroom Lamps.

Complete with Shade.

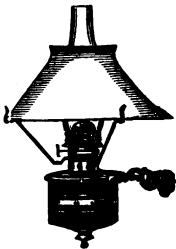
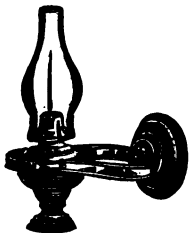


Fig. 797.

No.	Dia. of Shade.	Each.
1	9 inch.	\$4 50
2	10 inch.	5.25

Swing Lamps.



Fitted with kerosene burners
but no chimneys.

No.	Dia. of Pot, Inches.	Tin, Per Dozen.	Brass, Per Dozen.
1	3½	\$9.00	\$24.00
2	4½	....	48.00

Fig. 798.

Combination Lamps.

For Canoes and Steam Launches.



Shows Red and Green on sides and
White in front.

Can be used for both Head and Side
Light.

Height.	Each.
9½ inches.	\$6.00

Fig. 799.

Petty Coal Lamps.



Number.	Dia. of Bottom, Inches.	Per Dozen.
1	3	\$1.50
2	3½	1.70

Fig. 800.

Life Belts.



Fig. 805.

These Life Preservers will give entire satisfaction. They have no sharp corners to wear through. They bear the United States Inspector's brand, and are guaranteed.

No.	Each.
1 Granulated Cork,	\$1.70
2 Solid Cork,	2.20

Cork Jackets.



Fig. 806.

These Jackets are in use by all the principal steamship, steamboat and ferry companies in this country and Europe.

Their advantages are larger buoyancy, simplicity of adjustment, and greater durability; they also act as a fender to the person.

Price, \$2.40 each.

Ring Buoys.

Enable a person to float in safety until picked up.

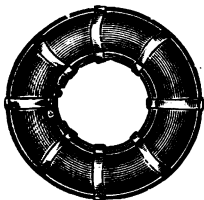


Fig. 807.

Outside Dia. Inches.	Each.
19 Yacht,	\$4.70
21 Extra Yacht,	5.70
24 Steamer,	6.10
27 Medium Steamer,	6.75
30 Extra Steamer,	8.60

Painted and lettered if desired at advanced price.

Swimming Jackets.



Fig. 808.

These Jackets are so arranged that they are no incumbrance to the person, and are easily adjusted. They can be worn under a bathing suit without being noticed. With them the most timid persons can learn to swim in a short time.

No.	Each.
1 Solid Cork, Plain White Cover, .	\$3.40
2 Solid Cork, Fancy Cover, .	3.80

Netted Cork Fenders.

Made of netted, tarred rope, cork filled.



Fig. 809.

Number.	Length, Inches.	Each.
1	16	\$5.65
2	18	6.25
3	20	6.85
4	22	7.60

Larger sizes quoted upon application.

Row Boat Fenders.

Made of canvas, cork filled.



Fig.
809-a.

Number.	Length, Inches.	Diameter, Inches.	Each.
6	12	3	\$1.50
7	15	3	1.80

Yacht Fenders.

Made of canvas, cork filled.



Fig. 810.

Number.	Length, Inches.	Diameter, Inches.	Each.
8	16	4	\$3.00
9	18	5	3.80
10	22	6	4.50
11	22	8	5.65

Rope runs through from end to end.

Leather Fenders.

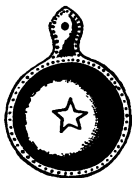


Fig. 811.

Diameter, Inches.	Each.
5	\$1.35
6	1.60

Cork Cushions.



Fig. 812.

Fig. 812.

Canvas,	\$2.75 per running foot.
Leatherette,	3.45 per running foot.
Corduroy,	4.15 per running foot.

Mooring Buoys.

Solid Cork. Galvanized Rod through Centre.
Swivel at Lower End.



Fig. 813.

Length, Inches.	Width at Centre, Inches.	Each.
24	12 x 12	\$12.00
30	16 x 16	21.25

Any size made to order.

Clinch Rings.

Self-Colored or Galvanized.

Countersunk Hole.



Fig. 821.

Straight Hole.

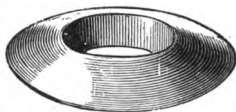


Fig. 822.

$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$ inch.

The size given is the diameter of the iron which the Clinch Rings will fit.

Washers.

Self-Colored or Galvanized.

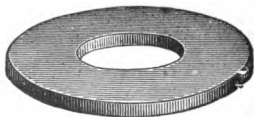


Fig. 823.

Diameter of Bolt.

$\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch.

Round Iron.

Self-Colored or Galvanized.

$\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch diameter.

Galvanized Machine Bolts.



Fig. 824-a.

Any size furnished to order and prices quoted upon application.

Galvanized Lag Screws.



Fig. 824-b.

Sizes in Stock.

$\frac{1}{4}$ x 3, $\frac{1}{2}$ x 4, $\frac{3}{4}$ x 4, $\frac{1}{2}$ x 5, $\frac{3}{4}$ x 6.

Any Size furnished to order.

Prices quoted upon application.

Galvanized Staples.



Fig. 824-c.

Length, Inches.	Size of Wire.	Per Gross.	Length, Inches.	Size of Wire.	Per Gross.
1	No. 14	\$0.35	2 $\frac{1}{2}$	$\frac{3}{16}$	\$1.30
1	No. 12	.45	3	$\frac{7}{32}$	1.75
1 $\frac{1}{2}$	No. 12	.55	3 $\frac{1}{2}$	$\frac{7}{32}$	2.00
1 $\frac{1}{4}$	$\frac{1}{8}$	.65	4	$\frac{1}{4}$	4.00
1 $\frac{1}{2}$	$\frac{1}{8}$	.80	5	$\frac{1}{4}$	6.00
2	$\frac{3}{16}$	.90	6	$\frac{5}{16}$	8.50

Cut Nails and Wire Nails.

Black or Galvanized.

Cut.



Common.

Size.	Length, Inches.	Advance over Base.
60 d	6	\$0.00
50 d	5½	.00
40 d	5	.00
30 d	4½	.00
20 d	4	.00
16 d	3½	.05
12 d	3¼	.05
10 d	3	.05
9 d	2¾	.10
8 d	2½	.10
7 d	2¼	.20
6 d	2	.20
5 d	1¾	.30
4 d	1½	.30
3 d	1¼	.45
2 d	1	.70

Wire.



Fig. 827.

Copper Nails at market rates.

Fig. 828.

Galvanized Tacks.



Length.	Ounces.	Per Pound.
½	8	\$0.25
¾	12	.22
1	16	.20
1¼	20	.20
1½	24	.20

Fig. 829.

Fig. 830.

Copper Tacks at market rates.

Galvanized Boat Nails.

Blunt or Regular Point.



Fig. 831.

Warranted to Clinch.

Length, 1, 1½, 1¾, 2, 2½, 2¾, 3, 3½, 3¾, 4, 4½, 5 Inch.

Packed in kegs of 100 pounds of a size, or in boxes of 25 pounds of a size.

Boat Spikes.

Black or Galvanized.



Fig. 832.

Table.

Giving the average number of Iron Spikes in a keg of 200 pounds.

Diameter, Length.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
3	3200	.....	.....	.....	.....
3½	2600	.....	.....	.....	.....
4	2400	1750	1250	.....	.....
4½	2150	1550	1100	.....	.....
5	2000	1380	990	.....	.....
5½	1750	1200	900	.....	.....
6	1600	1100	800	620	.....
7	.....	1000	700	510	.....
8	.....	.....	600	440	350
9	.....	.....	.....	400	320
10	.....	.....	.....	340	292
11	.....	.....	.....	.....	266
12	.....	.....	.....	.....	240

Deck Plugs.

For Shipbuilders and Carpenters.

Length, Inches.	White Pine, Per Thousand.	Yellow Pine and Oak, Per Thousand.
$\frac{1}{4}$ to 1	\$1.00	\$1.75
$1\frac{1}{8}$	1.50	2.50
$1\frac{1}{4}$	2.00	3.50
$1\frac{3}{4}$	3.00	6.00
$1\frac{1}{2}$	4.00	7.50
2	5.00	9.00

Treenail Wedges.

Yellow Pine or Oak.

Length.	Per Thousand.
$\frac{1}{4}$ to $1\frac{1}{4}$ inch,	\$1.00
$1\frac{1}{8}$ to $1\frac{1}{2}$ inch,	1.25

Ceiling Wedges.

Price, \$5.00 per thousand.

Bulk Oakum.



Fig. 833.

Packed in Bales of 50 Pounds.

Best,	\$0.15 per pound.
U. S. Navy, . . . . .	.13 $\frac{1}{4}$ per pound.
Navy, . . . . .	.11 $\frac{1}{4}$ per pound.

Coiled Oakum

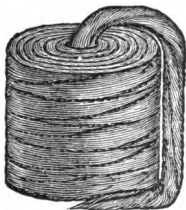


Fig. 834.

This Oakum is spun and put up in coils so that the strand can be drawn from the centre like a ball of twine.

The fibre is long, making a very strong strand ready for use, which can be increased to any size required, and also decreased, as the strand is easily divided.

There are 5 pounds in a coil and 10 coils in a bale.

- No. 1, Spun and Coiled Best Oakum.
- No. 2, Spun and Coiled U. S. Navy Oakum.
- No. 3, Spun and Coiled Navy Oakum.
- No. 4, Spun and Coiled Plumbers' Oakum.

Spun Oakum.

This Oakum is spun and laid in folds without being coiled.

- No. 5, Spun Best Oakum.
- No. 6, Spun U. S. Navy Oakum.
- No. 7, Spun Navy Oakum.

Packed in Bales of 50 Pounds.

Spun Cotton.

Packed in Bales of about 100 Pounds.

Mops.

Yacht.



Fig. 834-c.

\$12.00

Per Dozen.

Pitch.



Fig. 834-d.

\$6.50

Per Dozen.

Holy Stones.

Regular Holy Stone.

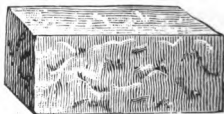


Fig. 834-e.

\$1.50 each.



Holy Stone bound with Iron
Strap for Handle.

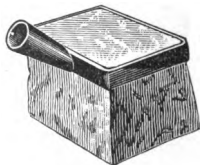


Fig. 834-f.

\$4.15 each.

Broken Holy Stone,

\$0.05 per pound.

Cotton Waste.

White or Colored.



Fig. 834-g.

Packed in 50 or 100 pound bales.

Prices quoted upon application.

Galvanized Pails.



Fig. 834-h.

Number.	Size, Quarts.	Per Dozen.
1	10	\$4.15
2	12	4.55
3	14	5.00

Canvas Yacht Buckets.

With Rope.



Fig. 834-m.

Galvanized Iron Ring in Top.

Diameter at Top, . . . 10 inches.

Diameter at Bottom, . . . 7½ inches.

Height, 12 inches.

Price, \$3.00 each.

Hickory Mauls.

With Heavy Iron Rings for Driving Planks.
Long Handle.

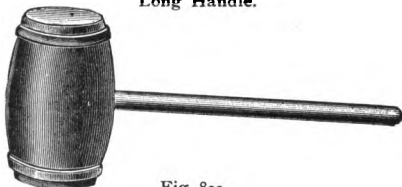


Fig. 833.

Number.	Dimensions of Head, Inches.	Each.
1	5 x 9	\$5.50
2	6 x 10	6.00
3	7 x 11	6.60

With Rough Bank.
Long Handle.

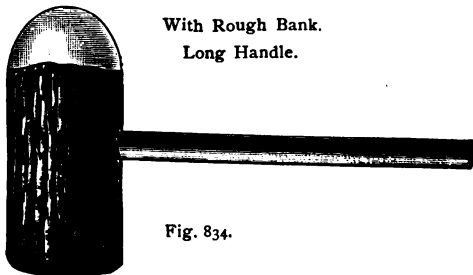


Fig. 834.

Number.	Dimensions of Head, Inches.	Each.	Number.	Dimensions of Head, Inches.	Each.
4	4 x 6	\$1.20	10	6 x 10	\$4.10
5	4 x 7	1.50	11	6 x 12	4.40
6	4 x 8	1.80	12	6 x 14	4.70
7	5 x 8	2.60	13	7 x 12	4.50
8	5 x 10	3.00	14	7 x 14	4.80
9	5 x 12	3.50	15	7 x 16	5.10
			16	8 x 16	5.60

Calking Mallets.

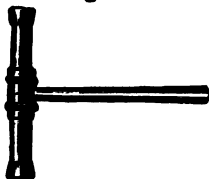


Fig. 835.

Number.	Live Oak.	Per Dozen.
000	Tempered Steel Rings, . . .	\$30.00
00	Polished Steel Rings, . . .	28.00
0	Polished Steel Rings, . . .	25.00
1	Polished Steel Rings, . . .	22.00
2	Polished Steel Rings, . . .	18.00
3	Varnished Steel Rings, . . .	16.00
4	Polished Iron Rings, . . .	22.00
5	Polished Iron Rings, . . .	18.00
6	Varnished Iron Rings, . . .	16.00
7	Varnished Iron Rings, . . .	14.00
8	Varnished Iron Rings, . . .	12.00
White Oak.		
9	Polished Iron Rings, . . .	\$11.00
10	Varnished Iron Rings, . . .	9.50



Fig. 836.

Number.	Live Oak.	Per Dozen.
1	Wrought Iron Rings, . . .	\$22.00
2	Wrought Iron Rings, . . .	17.50
3	Wrought Iron Rings, . . .	15.00
White Oak.		
4	Varnished Wrought Iron Rings,	\$15.00
5	Varnished Wrought Iron Rings,	13.50

Calking Irons.

Nos. 0-3. 4. 5. 6. 7. 8. 9.

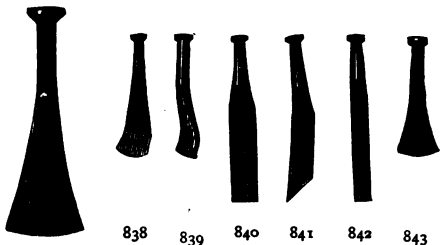


Fig. 837.

Number.	Width of Blade Inches.	Thickness of Blade Inches.	Number of Creases.	N. S. C. Co. Per Dozen.	C. Drew & Co., Per Dozen.
0	2½	⅛	0	\$4.50	\$7.00
1	2¼	⅜	1	4.65	7.00
2	2½	⅜	2	4.75	7.00
3	2½	¼	3	4.85	7.50
4	Single Crook.....			5.25	8.50
5	Double Crook.....			5.25	9.00
6	Sharp or Butt.....			6.00	9.00
7	Reefing or Clearing....			5.25	8.00
8	Spike			5.00	7.00
9	Deck or Dumb.....			5.25	8.00

Boat Irons.



Fig. 844

No. 00.....\$6.25 per Dozen.
 Length.....5 inches.
 Width of Blade.....2 inches.
 Thickness of Blade....⅛ inches.

Reefing Hooks.



\$1.40 each.

Fig. 845.

Boot Irons.



\$1.65 each.

Fig. 846.

Coppering Hammers.



No. 1, light, \$8.50 per dozen.

No. 2, heavy, 9.50 per dozen.

Fig. 847.

Coppering Punches.



\$4.50 per dozen.

Fig. 847-a.

Hawsing Iron.



Fig. 847-b.

Black, . . . \$15.00 per dozen.

Blades $\frac{1}{4}$ inch thick, unless otherwise ordered.

Ship Mauls.



Fig. 848.

Weights.	Per Pound.
4, 5, 6 pounds,	\$0.42

Ship Scrapers.



Fig. 849.

Wood Handle. Galvanized Socket.

Triangular Steel Blades.

No.	Thickness of Blade, Inches.	Per Dozen.
1	$\frac{1}{4}$	\$6.00
2	$\frac{1}{2}$	4.00

Boat Scrapers.



Fig. 850.

Price, \$3.50 per dozen.

Five Prong Grains.



Fig. 851.

Per Dozen, \$18.00

Harpoons.



Fig. 852.

Per Dozen, \$12.00

Toggle Irons.



Fig. 853.

Per Dozen, \$18.00

Lilly Irons.



Fig. 854.

Per Dozen, \$14.00

Ship Augers.

Regular.

Eye.



Size.	Regular, Per Dozen.	Eye, Per Dozen.
$\frac{1}{8}$ and $\frac{1}{8}$	\$7.50	\$8.25
$\frac{1}{8}$ and $\frac{1}{4}$	9.00	9.90
$\frac{1}{8}$ and $\frac{3}{8}$	10.50	11.55
$\frac{1}{8}$ and 1	12.00	13.20
$\frac{1}{8}$ and 1	13.50	14.85
$1\frac{1}{8}$ and $1\frac{1}{8}$	15.00	16.50
$1\frac{1}{8}$ and $1\frac{1}{4}$	16.50	18.15
$1\frac{1}{8}$ and $1\frac{3}{8}$	18.00	19.80
$1\frac{1}{8}$ and $1\frac{1}{2}$	21.00	23.10
$1\frac{1}{8}$ and $1\frac{3}{4}$	24.00	26.40
$1\frac{1}{8}$ and $1\frac{7}{8}$	25.50	28.05
$1\frac{1}{8}$ and $1\frac{7}{8}$	27.00	29.70
$1\frac{1}{8}$ and 2	31.50	34.65
$2\frac{1}{8}$ and $2\frac{1}{8}$	48.00	52.80
$2\frac{1}{8}$ and $2\frac{1}{4}$	60.00	66.00
$2\frac{1}{8}$ and $2\frac{3}{8}$	72.00	79.20
$2\frac{1}{8}$ and $2\frac{1}{2}$	84.00	92.40
$2\frac{1}{8}$ and $2\frac{3}{4}$	96.00	105.60
$2\frac{1}{8}$ and $2\frac{7}{8}$	108.00	118.80
$2\frac{1}{8}$ and $2\frac{7}{8}$	120.00	132.00
$2\frac{1}{8}$ and 3	132.00	145.20
$3\frac{1}{8}$ and $3\frac{1}{8}$	204.00	224.40



The usual twist for 1-3 inch Augers is from 7 1-2 to 9 1-2 inches. Sizes 9-16 to 1 1-16 inch, about 19 inches. 1 1-8 to 1 7-8, 15 inches.

Fig. 855.

Fig. 856.

Boat Rivets. Galvanized.



Fig. 857.

Diameter, Inches.	Length, Inches.	Per Pound.
$\frac{3}{16}$	$2\frac{1}{2}$ to 10	\$0.16
$\frac{1}{4}$	$2\frac{1}{2}$ to 10	.15
$\frac{5}{16}$	$2\frac{1}{2}$ to 10	.14
$\frac{3}{8}$	$2\frac{1}{2}$ to 10	.13

Made to Order.

Chain Hooks.



Fig. 858.

Diameter, Inches.	Length, Inches.	Galvanized, Per Pound.	Black, Per Pound
$\frac{1}{2}$	24	\$0.17	\$0.14
$\frac{3}{4}$	26	.17	.14
$\frac{7}{8}$	28	.17	.14

Mooring Hooks.

Galvanized.



Fig. 859.

Dia. of Iron Inches.	Length under Eye Inches.	For Dia. Rope Inches.	Each.
$\frac{1}{2}$	8	1	\$0.50
$\frac{3}{4}$	9	$1\frac{1}{2}$	.75
$\frac{7}{8}$	9	$1\frac{1}{2}$	1.00
$\frac{1}{2}$	10	$1\frac{1}{2}$	1.25



Fig. 860.

We send figure 859 unless otherwise ordered

Oyster Tong Rivets and Plates.

Brass.

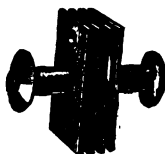


Fig. 863.

Number.	Dia. of Rivet, Inches.	Length of Rivet, Inches.	Per Pound.
1	$\frac{3}{8}$	$2\frac{1}{4}$	\$0.50
2	$\frac{3}{8}$	$2\frac{1}{4}$	.50
3	$\frac{3}{8}$	$3\frac{1}{4}$	.50

A set consists of one rivet, one bur and four plates.

Rigger Screws.

For Hemp and Wire Rope.

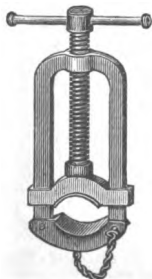


Fig. 864.

Dia. of Screw.	For Hemp Rope, Each.	For Wire Rope, Each.
$\frac{1}{2}$	\$2.50	\$2.75
1	2.75	3.50
$1\frac{1}{4}$	3.75	4.75
$1\frac{1}{2}$	4.50	6.25
$1\frac{3}{4}$	8.50	9.00

Ship Clamp Screws. Wrought Iron.



Fig. 865.

Number.	Size of Frame, Inches.	Dia. of Screw, Inches.	Space in Clear, Inches.	Price, Each.
1	5 x 1 $\frac{1}{2}$	2 $\frac{1}{2}$	36 x 10	\$42.00
2	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	2	33 x 9	30.00
3	4 x 1 $\frac{1}{2}$	1 $\frac{1}{2}$	30 x 8	22.00
4	4 x 1	1 $\frac{1}{2}$	27 x 8	19.00
5	3 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	24 x 7	12.50
6	3 x $\frac{3}{4}$	1 $\frac{1}{2}$	21 x 6	10.00
7	2 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	18 x 5	7.00
8	2 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	16 x 4	5.75
9	2 x $\frac{3}{4}$	1 $\frac{1}{2}$	14 x 4	5.00
10	1 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	12 x 3 $\frac{1}{2}$	4.50
11	1 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	10 x 3 $\frac{1}{2}$	3.75
12	1 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$	8 x 3	3.00
13	1 $\frac{1}{2}$ x $\frac{3}{4}$	1	6 x 3	2.50

Ship Carpenters' Clamps. With Sliding Jaw.

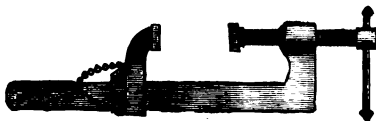


Fig. 866.

Number.	Size of Screw, Inches.	Size of Frame, Inches.	Opening of Clamp, Inches.	Price, Each.
14	1 $\frac{1}{2}$	3 x $\frac{1}{2}$	30	\$14.25
15	1 $\frac{1}{2}$	3 $\frac{1}{2}$ x $\frac{1}{2}$	36	17.75
16	2	4 x 1	36	20.00

Hook and Eye Turnbuckles.

Swivel Eye.

Galvanized.



Fig. 867

Dia. of Ends.	Each.	Dia. of Ends.	Each.
$\frac{1}{4}$	\$1.00	$\frac{1}{2}$	\$1.80
$\frac{5}{16}$	1.10	$\frac{3}{4}$	2.40
$\frac{3}{8}$	1.30	$\frac{1}{2}$	3.50
$\frac{7}{16}$	1.50	$\frac{3}{4}$	4.25

Double Hook and Double Eye Turnbuckles made to order.

Turnbuckles.

With Right and Left Stub Bolt Ends.
Self-Colored.



Fig. 868.

6 inches clear between heads.

Dia. of Ends.	Each.	Dia. of Ends.	Each.
$\frac{1}{4}$	\$0.40	$1\frac{1}{2}$	\$1.00
$\frac{7}{16}$	.42	$1\frac{1}{4}$	1.25
$\frac{1}{2}$	.45	$1\frac{3}{4}$	1.38
$\frac{9}{16}$	.48	$1\frac{1}{2}$	1.50
$\frac{3}{4}$	.50	$1\frac{3}{4}$	1.75
$\frac{7}{8}$	.63	$1\frac{1}{2}$	2.00
$\frac{1}{2}$	.75	$1\frac{3}{4}$	2.25
1	.88	2	2.65

Double Eye Turnbuckles



Fig. 868-b

Dia. of Ends, Inches.	Each.	Dia. of Ends, Inches.	Each.
$\frac{1}{4}$	\$1 00	$\frac{1}{2}$	\$1.80
$\frac{5}{16}$	1.10	$\frac{3}{4}$	2.40
$\frac{3}{8}$	1.30	$\frac{1}{2}$	3.50
$\frac{7}{16}$	1.50	$\frac{3}{4}$	4.25

Pipe Turnbuckles.

Galvanized.



Fig. 868-c.

With Right and Left Hand Thread.

Dia. of Ends, Inches.	Length of Pipe, Inches.	Each.
$\frac{1}{4}$	5 $\frac{1}{2}$	\$1.00
$\frac{5}{16}$	5 $\frac{1}{2}$	1.10
$\frac{3}{8}$	6 $\frac{1}{2}$	1.30
$\frac{7}{16}$	7	1.50
$\frac{1}{2}$	8 $\frac{1}{2}$	1.80
$\frac{5}{8}$	10 $\frac{1}{2}$	2.40
$\frac{3}{4}$	13	3.50
$\frac{7}{8}$	16	4.25
1	18	5.50

Brass Turnbuckles.



Fig. 86g.

Number.	Whole Length Screwed Up, Inches.	Screw Opens, Inches.	Each.
1	2½	¾	\$0.50
2	3	1½	.60
3	3½	1¾	.80
4	4½	1¾	.90
5	5	2½	1.00

Double Eye Swivels.

Galvanized.



Fig. 87o.

Number.	Length, Inches.	Per Dozen.
1	1½	\$0.75
2	2	1.00
3	2½	1.50
4	3½	2.00

Sounding Leads.



Fig. 87i.

Weights, 3, 5, 6, 8, 10, 12 pounds, \$0.10 per pound.

Larger sizes made to order.

Belaying Pins.

Galvanized Malleable Iron.



Fig. 872.

Number.	Dia. of Pin, Inches.	Extreme Length, Inches.	Length of Handle, Inches.	Per Dozen.
1	1	15	6½	\$6.00
2	1½	16	7	9.00
3	1½	19	8	11.00

Belaying Pins.

Wood.



Fig. 873.

Number.	Dia. of Pin, Inches.	Extreme Length, Inches.	Length of Handle, Inches.	Oak or Hickory, Per Dozen.	Locust, Per Dozen.
10	¾	11	4½	\$1.40	\$1.50
11	⅞	12	5	1.60	1.70
12	1	15	6½	1.80	1.90
13	1½	16	7	2.00	2.20
14	1½	19	8	2.20	2.50

Marline Spikes.

Tempered Steel.



Fig. 873-a.

Length, Inches.	Polished, Per Dozen.	Japanned, Per Dozen.
6	\$3.00	\$1.75
8	3.50	2.00
9	3.75	2.60
10	4.00	3.00
11	4.50	3.25
12	5.00	3.50
13	5.50	4.00
14	6.50	5.00
15	7.50	5.50
16	9.50	6.50

Wire Rope Marline Spikes.

Polished Tool Steel.



Fig. 873-b.

Length,	14	16	18	inches.
	\$18.00	\$21.00	\$24.00	per dozen.

Jib Hanks.

Galvanized Wrought Iron.



Fig. 873-c.

Single Stay.

Dia. in Clear, Inches.	Per Dozen.	Dia. in Clear, Inches.	Per Dozen.
$\frac{1}{4}$	\$0.50	$2\frac{1}{4}$	\$1.00
$\frac{3}{8}$	.60	$2\frac{1}{2}$	1.15
1	.65	$2\frac{3}{4}$	1.30
$1\frac{1}{4}$	.70	3	1.50
$1\frac{1}{2}$	.75	$3\frac{1}{4}$	2.25
$1\frac{3}{4}$	.80	4	3.00
2	.90		

Hatch Rope, Eyes or Thimbles.



Fig. 873-d.

Dia. Inside, Inches.	Per Dozen.
$\frac{1}{2}$	\$2.00
$2\frac{1}{2}$	4.00

Wood Mast Hoops.

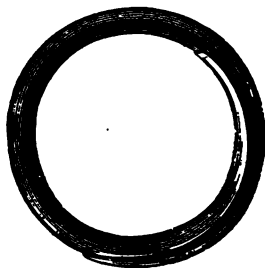


Fig. 874.

With Iron or Copper Rivets.

Inside Diameter.

4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 20, 22, 24, 26, 28, 30, 32.

\$0.03 per inch.

Yacht Mast Hoops.

Finished and Copper Riveted.

Inside Diameter.

3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12 inch.

\$0.04 per inch.

Rings.

For Rig and Mast.

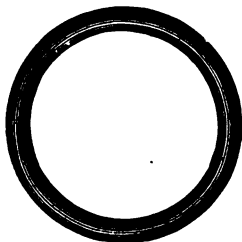


Fig. 875.
Galvanized Iron.

3 to 8 inch are made of 1-4 round wrought iron. Smaller sizes are malleable iron.

Inside Diameter, Inches.	Per Dozen.	Inside Diameter, Inches.	Per Dozen.
3/8	\$0.05	3	\$0.60
1/2	.08	3 1/2	.70
5/8	.10	4	.85
7/8	.14	4 1/2	1.00
1	.17	5	1.10
1 1/4	.20	5 1/2	1.20
1 1/2	.25	6	1.30
1 3/4	.30		
2	.35	7	1.40
2 1/4	.40		
2 1/2	.45	8	1.65
2 3/4	.50		

Polished Brass Rings.

Inside Diameter, Inches.	Per Dozen.	Inside Diameter, Inches.	Per Dozen.
3/8	\$0.80	1 1/2	\$1.23
1/2	.80	1 3/4	1.49
5/8	.80	1 7/8	1.84
7/8	.88	2	2.28
1	.88	2 1/4	2.80
	.96	2 1/2	3.15

Withes.

For Mast, Boom and Gaff.
Galvanized.



Fig. 876.



Fig. 877.



Fig. 878.



Fig. 879.

Inside Dia. Inches.	One Eye, Each.	Two Eyes, Each.	Three Eyes, Each.	Four Eyes, Each.
1½	\$0.60	\$0.80	\$1.00	\$1.40
1¾	.60	.80	1.00	1.40
1⅞	.70	.90	1.10	1.50
2	.80	1.00	1.20	1.60
2½	1.00	1.20	1.40	1.80
3	1.20	1.50	1.80	2.20
3½	1.40	1.70	2.00	2.40
4	1.60	2.00	2.40	2.80
4½	1.80	2.20	2.60	3.00
5	2.00	2.40	2.80	3.20
5½	2.20	2.60	3.00	3.40
6	2.40	2.80	3.20	3.60

Gaff Bands.



Fig. 880.

Inside Diameter, Inches.	Each.	Inside Diameter, Inches.	Each.
1½	\$0.80	3½	\$1.40
1¾	.80	4	1.60
2	.80	4½	1.80
2½	1.00	5	2.00
3	1.20		

Boom Bands.

Galvanized.



Fig. 88r.

Inside Diameter, Inches.	Each.	Inside Diameter, Inches.	Each.
1½	\$0.80	3½	\$1.50
2	.90	4	1.70
2½	1.00	4½	2.00
3	1.30	5	2.50

Adjustable Boom Bands.

Galvanized.



Fig. 88z.

Inside Diameter, Inches.	Each.	Inside Diameter, Inches.	Each.
3	\$4.00	4½	\$5.50
3½	4.50	5	6.00
4	5.00		

Mast Bands.

Galvanized.



Fig. 883.

Diameter Inside, Inches.	Each.	Diameter Inside, Inches.	Each.
1½	\$0.30	3	\$0.50
1¾	.32	3½	.60
1¾	.36	4	.80
2	.40	5	.90
2½	.44		

Bob Stay Plates.

Galvanized.



Fig. 884.

Number.	Dia. of Iron in Eye, Inches.	Length of Strap, Inches.	Each.
21	½	3	\$0.80
22	¾	3½	1.00
23	¾	4	1.20
24	¾	4½	1.50

Chain or Stay Plates

with UPSET EYE.

Galvanized.



Fig. 885.

Number.	Length under Eye, Inches.	Dia. of Eye, Inches.	Each.
31	3	½	\$0.40
32	4	¾	.50
33	5	¾	.60
34	6	¾	.70

Chain or Stay Plates.

Galvanized.



Fig. 886.

Number,	1	2	3	4	5	6	
Length,	6	8	10	12	14	16	inch.
	\$0.70	.80	1.00	1.20	1.40	1.60	

Chain Plates.

With Dead Eyes.

Galvanized.

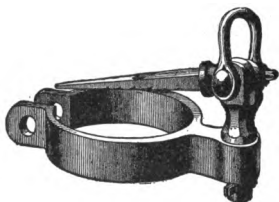


Fig. 887.

Number.	Dead Eye, Inches.	Size of Iron, Inches.	Length from Hinge to End, Inches.	Each.
11	2	1 x $\frac{3}{8}$	12	\$2.70
12	2 $\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{1}{2}$	16	3.00
13	3	1 $\frac{1}{2}$ x $\frac{1}{2}$	18	4.00
14	3 $\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{1}{2}$	21	4.50
15	4	2 x $\frac{5}{8}$	24	5.00
16	4 $\frac{1}{2}$	2 x $\frac{1}{2}$	25	6.00
17	5	2 $\frac{1}{2}$ x $\frac{1}{2}$	30	7.00

Goose Neck and Bands.

Galvanized.



No.	Inside Dia. Inches.	Each.
1	3	\$4.00
2	3½	4.50
3	4	5.00
4	4½	5.50
5	5	6.00
6	5½	6.50
7	6	7.00
8	6½	8.00

Fig. 888.

Any size made to order.



Fig. 889.

Number	11	12	13	14	15	16	17	
Inside Dia.	3	3½	4	4½	5	5½	6	inch.
	\$0.70	.70	.80	.80	1.00	1.00	1.00	each.

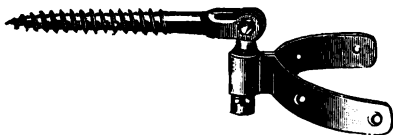


Fig. 890.

Number	21	22	23	24	25	26	27	
Inside Dia.	3	3½	4	4½	5	5½	6	inch.
	\$2.40	2.40	3.00	3.10	3.50	3.50	5.00	each.

Sheet Traveler.

With Plate.



Fig. 891.

Number.	Dia. of Iron, Inches.	Length, Inches.	Each.
1	$\frac{1}{2}$	18	\$1.80
2	$\frac{1}{2}$	20	2.30
3	$\frac{1}{2}$	24	3.35
4	$\frac{1}{2}$	30	4.50

Sheet Travelers.

With Nuts.

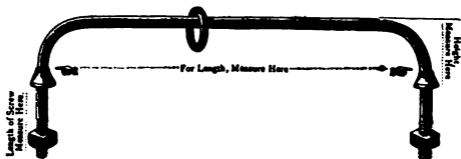


Fig. 892.

Number.	Dia. of Iron, Inches.	Length, Inches.	Each.
5	$\frac{1}{2}$	20	\$2.30
6	$\frac{1}{2}$	24	3.35
7	$\frac{1}{2}$	30	4.50
8	$\frac{1}{2}$	36	5.65

Regular length to go through Deck is 4 inches, with long thread.

Any size made to order.

Topsail Sheet Chains.

Galvanized.

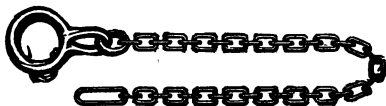


Fig. 893.

Number.	Length, Inches.	Size of Chain, Inches.	Size of Hook, Inches.	Each.
1	84	$\frac{1}{8}$	$\frac{1}{4}$	\$3.00
2	84	$\frac{7}{16}$	$\frac{1}{2}$	4.00
3	84	$\frac{1}{2}$	$\frac{3}{4}$	4.75
4	84	$\frac{9}{16}$	1	5.50

Mooring Chains.

Galvanized.



Fig. 894.

Number.	Length, Inches.	Size of Chain, Inches.	Thimble for Dia. Rope, Inches.	Each.
11	42	$\frac{1}{8}$	1	\$2.50
12	42	$\frac{7}{16}$	$1\frac{1}{4}$	3.25
13	42	$\frac{1}{2}$	$1\frac{1}{2}$	4.00

Deck Irons.

Galvanized.

Water Deck Iron. (Regular.)



Fig. 895.

Air Deck Iron.

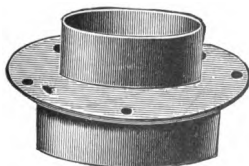


Fig. 896.

Dia. of Opening, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10 inches.
Price, \$0.14 per pound.

Chain Deck Pipes.

Galvanized.

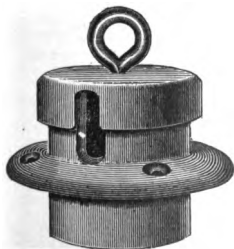


Fig. 897.

Dia. of Opening, Inches.	For Chain, Inches.	Each.
1½	¾	\$0.50
2	¾	.65
2½	¾	.70
2½	¾	.75
3	¾	1.00
3½	¾	1.50
4	¾	2.50
4½	¾	3.00
5	1	3.25
5½	1½	4.00
6	1½	4.25

Deck Plates.

Polished Brass.



Fig. 898.

Dia. of Opening, Inches.	Each.
1 $\frac{1}{4}$	\$0.90
1 $\frac{3}{8}$	1.00
1 $\frac{1}{2}$	1.25
2	1.50
2 $\frac{1}{2}$	2.00
3	3.00
3 $\frac{1}{2}$	3.50
4	4.00
5	5.00
6	6.00

Manhole Plates

Polished Brass.

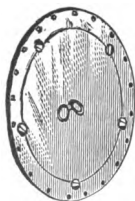


Fig. 899.



Fig. 900.

Dia. of Opening, Inches.	With Cover, Each.	With Cover and Grating, Each.
9	\$12.00	
10	13.50	\$17.00
12	15.00	20.00
13	20.00	25.00
14	25.00	30.00
15	30.00	35.00
16	32.50	40.00
18	62.50	70.00
20	70.00	80.00

Made to order only.

Brass Side Lights.

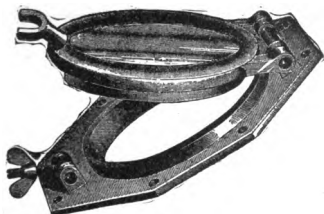


Fig. 901.

Diameter of Opening, Inches.	Plain Brass, Each.	Polished Brass, Each.
3	\$3.00	\$4.50
4	3.60	5.00
5	5.00	6.50
6	6.00	7.50
7	6.75	8.25
8	7.00	8.75
9	10.00	13.50
10	12.00	15.00

Oval Brass Side Lights.

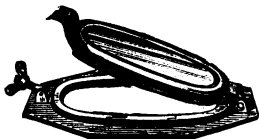


Fig. 902.

Diameter of Opening, 7 x 4 inches.

\$3.75 each.

Strap Hinges.

Brass Rivets.



Fig. 903.

Length, Open, Inches.	Galvanized, Per Pair.	Plain Brass, Per Pair.	Polished Brass, Per Pair.
5	\$0.25	\$0.45	\$0.65
6	.30	.50	.75
8	.40	.65	.95
10	.60	1.00	1.40
12	.90	1.40	1.80

Port Hinges.

Brass Rivets.

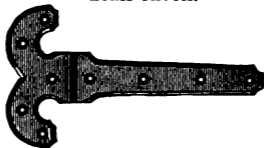


Fig. 904.

Length, Open, Inches.	Galvanized, Per Pair.	Plain Brass, Per Pair.	Polished Brass, Per Pair.
4	\$0.30	\$0.45	\$0.70
5	.35	.50	.75
6	.40	.60	.95
8	.50	.75	1.05
10	.75	1.10	1.50
12	1.00	1.50	1.90

Cabin Door Hinges.



Fig. 905.

Length, Inches.	Galvanized, Per Pair.	Plain Brass, Per Pair.	Polished Brass, Per Pair.
6	\$0.50	\$0.75	\$1.05
8	.75	1.12	1.50
11	.87	1.20	1.70
18	1.12	1.60	2.00

Hasp Hinges.



Fig. 906.

Number.	Length, Open, Inches.	Galvanized, Per Dozen.	Plain Brass, Per Dozen.	Polished Brass, Per Dozen.
1	6	\$2.40	\$6.50	\$9.75
2	8	3.25	8.00	11.00
3	10	4.25	10.00	14.50
4	13	5.75	13.00	17.50

Cuddy Door Hinges.



Fig. 907.

Length, Open, Inches.	Plain Brass, Per Pair.	Polished Brass, Per Pair.
3	\$0.20	\$0.30
4	.30	.40
5	.40	.50
6	.50	.65
7	.75	1.00

Hasp Hinges.



Fig. 908.

Number.	Length, Open, Inches.	Galvanized, Per Dozen.	Plain Brass, Per Dozen.	Polished Brass, Per Dozen.
11	4	\$1.50	\$2.00	\$4.00
12	5	2.00	3.00	5.25
13	6	2.40	4.25	6.50

Skylight Hinges.



Fig. 911.

Number.	Length Between Joints, Inches.	Length of Outside Straps, Inches.	Plain Brass, Per Pair.	Polished Brass, Per Pair.
1	3	6	\$1.25	\$2.00
2	3½	6	1.25	2.00
3	4	6	1.25	2.00
4	4½	6	1.35	2.25
5	5	6	1.35	2.25
6	5½	6	1.50	2.50
7	6	6	1.50	2.50

Skylight Quadrants.



Fig. 912.

Number.	Length, Inches.	Finished Brass, Per Pair.	Polished Brass, Per Pair.
1	5	\$2.00	\$2.50
2	8	3.00	4.00
3	9	3.50	4.50
4	10	4.00	5.00

Cast Brass Butts.

Fast Joints.

Emery Finish.



Fig. 913.

Size, Open, Inches.	Per Dozen Pair.	Size, Open, Inches.	Per Dozen Pair.
2 x 1½	\$3.00	2½ x 2½	\$7.00
2 x 1½	3.50	3 x 2	6.75
2 x 1¾	4.20	3 x 2½	7.75
2 x 2	4.50	3 x 3	10.50
2½ x 1¾	3.40	3½ x 2½	9.75
2½ x 2	5.00	3½ x 3½	15.50
2½ x 1¾	4.50	4 x 2½	14.00
2½ x 2	5.25	4 x 4	20.00

2½ x 2½ and smaller packed 1 dozen pair in a box.
3 x 2 and larger packed ½ dozen pair in a box.

Brass Butts.

Loose Joint.

Polished.

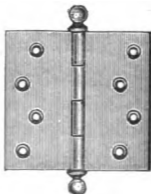


Fig. 914.

Size, Open, Inches.	Per Pair.	Size, Open, Inches.	Per Pair.
2½ x 2½	\$1.70	5 x 5	\$3.90
3 x 3	1.90	5 x 6	5.00
3½ x 3½	2.20	5½ x 5½	4.80
4 x 4	2.60	6 x 6	6.10
4½ x 4½	3.20		

Door Buttons.



Fig. 914-a.

Brass.

No.	1	2	3	
Dia.	1½	1½	2	inches.
	\$1.15	1.30	1.60	per dozen.

Door Pulls.

Brass.



Fig. 914-b.

No.	1	2	3	
L'th,	5½	6	7 in.	
	\$2.50	3.30	4.10	

Cabin Door Hooks.

Brass.



Fig. 914-c.

Length,	2½	3	3½	4	inch.
	\$4.40	5.00	5.75	6.60	per dozen.

Flat Door Bolts.

Polished Brass.

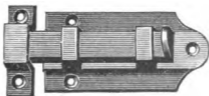


Fig. 914-d.

No.	1	2	3	4	
Length,	2	2½	3	3½	inch.
	\$2.90	3.30	4.40	5.60	per dozen.

232-a

Ship Locks.

All Brass.

UPRIGHT RIM KNOB LOCKS.

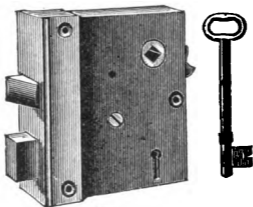


Fig. 915.

Order No. 1. 4 x 3 $\frac{1}{4}$ inches.

Face to center of Key Hole, 2 $\frac{1}{4}$ inches.

For $\frac{5}{16}$ inch Spindle. Reversible Latch Bolts.

Packed with Screws.

Price without Knobs, \$39.00 per dozen.

MORTISE KNOB LOCKS.

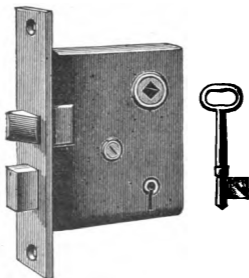


Fig. 916.

Order No. 2. 3 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inches.

Face to center of Key Hole, 2 $\frac{1}{4}$ inches.

For $\frac{5}{16}$ inch Spindle. Reversible Latch Bolts.

Packed with Screws.

Price without Knobs, \$30.00 per dozen.

Ship Knobs.

All Brass.

DOOR KNOB AND RING HANDLE.

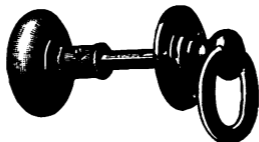


Fig. 917.

$\frac{1}{8}$ inch Spindle. Packed with Screws.

For Rim Locks, with One Rose.

No. 1,	2 inch Knob,	\$25.00 per dozen.
No. 2,	$2\frac{1}{2}$ inch Knob,	25.00 per dozen.

For Mortise Locks, with Two Roses.

No. 3,	2 inch Knob,	\$25.00 per dozen.
No. 4,	$2\frac{1}{2}$ inch Knob,	25.00 per dozen.

DOOR KNOB AND DROP HANDLE.

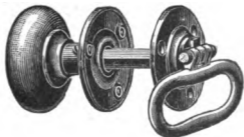


Fig. 917-a.

$\frac{1}{8}$ inch Spindle. Packed with Screws.

For Rim Locks, with One Rose.

No. 11,	2 inch Knob,	\$24.00 per dozen.
No. 12,	$2\frac{1}{2}$ inch Knob,	24.00 per dozen.

For Mortise Locks, with Two Roses.

No. 13,	2 inch Knob,	\$24.00 per dozen.
No. 14,	$2\frac{1}{2}$ inch Knob,	24.00 per dozen.

Padlocks.

Brass.



Fig. 917-b.

WITHOUT CHAIN.

No.	Width, Inches.	Per Dozen.
1	1 $\frac{1}{2}$	\$7.50
2	1 $\frac{3}{4}$	8.50
3	2 $\frac{1}{4}$	9.70

WITH CHAIN.

11	1 $\frac{1}{2}$	\$8.80
12	1 $\frac{3}{4}$	9.80
13	2 $\frac{1}{4}$	11.00

Stanchions.

Polished Brass.



Fig. 917-c.

Number.	Height, Inches.	Dia. of Hole, Inches.	Each.
11	2	$\frac{1}{2}$	\$0.50
12	2 $\frac{1}{2}$	$\frac{3}{4}$	.60
13	3	$\frac{1}{2}$	.80

Any special size made to order.

Rails.

Polished Brass.

Diameter	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	
	\$0.25	.30	.35	.40	per foot.

Binnacle Bells.

Polished Bell Metal.

With Bracket.

With Yoke.

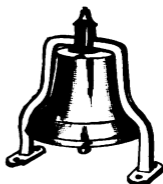


Fig. 917-d.

Fig. 917-e.

No. 1, 7 inch Diameter, with Bracket, \$12.00 each.

No. 2, 7 inch Diameter, with Yoke, 14.00 each.

Ship Bells.

Unpolished Bell Metal.

WITHOUT HANGER.			WITH HANGER.		
Number.	Dia. Inches.	Each.	Number.	Dia. Inches.	Each.
9	9	\$7.50	13	9	\$9.50
10	10	10.00	14	10	12.50
11	11	12.50	15	11	15.00
12	12	18.00	16	12	24.00

Gong Bells.

Polished Bell Metal.



Dia. Inches.	Each.	Dia. Inches.	Each.
3	\$0.85	7	\$2.85
4	1.05	8	3.85
5	1.40	10	7.00
6	2.00	12	12.50

Fig. 917-f.

Flag Pole Sockets.

For Steam Yachts and Launches.

FLUSH, STRAIGHT, FOR BOW.



Fig. 918.

Number.	Dia. Inside, Inches.	Each.
5	1½	\$0.60
6	1½	.80



Fig. 919.

FLUSH, RAKING, FOR STERN.

7	1½	.70
8	1½	.90



Fig. 920.

UPRIGHT, STRAIGHT, FOR BOW.

9	1½	.85
10	1½	1.00

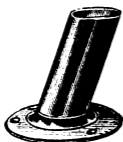


Fig. 921.

UPRIGHT, RAKING, FOR STERN.

11	1½	1.10
12	1½	1.25

Letters.

Polished Brass.



Fig. 922.

Length,	1	1½	1¾	2	2½	3	inch.
	\$0.12	.16	.20	.28	.34	.50	each.

Figures.

Polished Brass.

Length,	1	1½	1¾	2	2½	3	inch.
	\$0.10	.11	.12	.14	.22	.34	each.

Flag Staples.

Galvanized.



Fig. 923.

Number.	Length, Inches.	Dia. Eye, Inside, Inches.	Per 100.
1	3½	⅞	\$4.00
2	4½	⅞	6.00

Boat Hooks.

REGULAR.

Galvanized Malleable Iron.



Fig. 924.

WROUGHT IRON.

Galvanized.

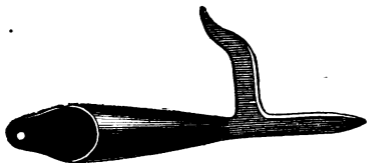


Fig. 925.

SINGLE NAVY.

Galvanized Malleable Iron.



Fig. 926.

DOUBLE NAVY.

Galvanized Malleable Iron.



Fig. 927.

With Poles.



Fig. 928.

Boat Hooks.

REGULAR.

Number,	Diameter of Pole, Inches.	Galvanized, Per Dozen.
0	1	\$3.50
1	1½	3.60
2	1½	4.80
3	2	5.40

WROUGHT IRON.

Number.	Diameter of Pole, Inches.	Galvanized, Per Dozen.
11	1½	\$4.50
12	1½	5.00
13	2	5.50

SINGLE NAVY.

Number.	Dia. of Pole, Inches.	Galvanized, Per Dozen.	Polished Brass, Per Dozen.
20	1	\$4.60	\$9.00
21	1½	4.80	10.50
22	1½	5.40	12.00
23	2	6.00	13.75

DOUBLE NAVY.

Number.	Dia. of Pole, Inches.	Galvanized, Per Dozen.	Polished Brass, Per Dozen.
31	1½	\$5.50	\$10.75
32	1½	7.00	12.50
33	2	8.00	16.25

Boat Hook Poles.

Prices quoted upon application.

Strap Rudder Braces.

Galvanized.

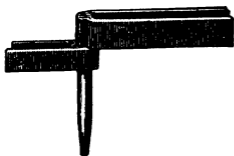


Fig. 929.

No.	Width between Straps, Inches.	Per Set.
11	$\frac{1}{2}$	\$0.42
12	1	.50
13	$1\frac{1}{2}$	.67
14	$1\frac{3}{4}$	.92
15	$1\frac{1}{2}$	1.25
16	2	1.75

Screw Rudder Braces.

Galvanized.



Fig. 930.

No.	Width between Straps, Inches.	Per Set.
1	$\frac{1}{4}$	\$0.27
2	$\frac{1}{2}$	.32
3	$\frac{3}{4}$	.38
4	$1\frac{1}{4}$	.42
5	$1\frac{1}{2}$	.46
6	$1\frac{3}{4}$	.55

Brass Rudder Braces.

Polished.

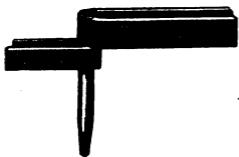


Fig. 931.

No.	Width between Straps, Inches.	Per Set.
00	$\frac{1}{4}$	\$0.75
0	$\frac{3}{8}$	.85

Rudder Gudgeons.

Galvanized.



Fig. 932.

Number.	Diameter of Eye, Inches.	Length of Screw, Inches.	Per Dozen.
1	$\frac{1}{4}$	1	\$0.30
2	$\frac{5}{16}$	$1\frac{1}{4}$	.40
3	$\frac{3}{8}$	$1\frac{3}{8}$	.45
4	$\frac{7}{16}$	$1\frac{1}{2}$	.50
5	$\frac{7}{16}$	2	.65
6	$\frac{1}{2}$	2	.75
7	$\frac{9}{16}$	$2\frac{1}{4}$	1.00

Socket Rowlocks.

Galvanized.

With Regular Socket.



Fig. 933.

No.	Width between Horns, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
0	1½	\$0.20	\$0.30
1	2	.30	.40
2	2½	.40	.50
3	2½	.60	.70
4	3	.90	1.00

Socket Rowlocks.

Galvanized.

With Side Plate Sockets

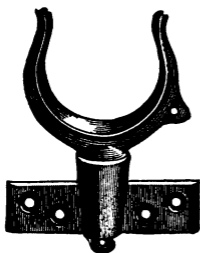


Fig. 934.

No.	Width between Horns, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
11	2	\$0.40	\$0.50
12	2½	.50	.60

Fancy Socket Rowlocks.



Fig. 933-a.

Galvanized.

With Regular Socket.

No.	Width between Horns, Inches.	Cast Iron, Per Pair,	Malleable Iron, Per Pair.
0	1½	\$0.30	\$0.40
1	2	.40	.50
2	2½	.50	.60



Fig. 934-a.

Galvanized.

With Side Plate Sockets.

No.	Width bet. Horns, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
11	2	\$0.50	\$0.60
12	2½	.60	.70

The Brass Chains prevent the Horns from slipping out of the Sockets and getting lost, yet they can be easily removed by hand.

Ring Rowlocks.

Galvanized.

With Regular Sockets.



Fig. 935.

No.	Dia. of Ring Inside, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
1	2½	\$0.40	\$0.50

Ring Rowlocks.

Galvanized.

With Side Plate Sockets.

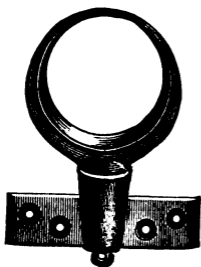


Fig. 936.

No.	Dia. of Ring, Inside, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
11	2½	\$0.50	\$0.60

Dory Rowlocks.

Galvanized.

With Regular Socket.



Fig. 937.

No.	Width between Horns, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
1	1½	\$0.50	\$0.60

Dory Rowlocks.

Galvanized.

With Side Plate Sockets.

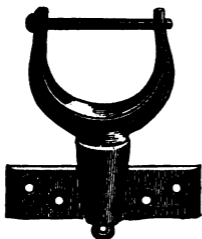


Fig. 938.

No.	Width between Horns, Inches.	Cast Iron, Per Pair.	Malleable Iron, Per Pair.
11	1½	\$0.60	\$0.70

These Rowlocks have a Rivet in the horn which is passed through the Oar and then riveted down, making the Rowlock fast to the Oar.

Brass Rowlocks.

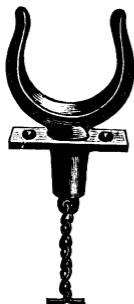


Fig. 939.

Polished.

With Regular Sockets.

Number.	Width between Horns, Inches.	Per Pair.
0	1½	\$1.50
1	2	1.75
2	2½	2.25

Brass Rowlocks.



Fig. 940.

Polished.

With Side Plate Sockets.

Number.	Width between Horns, Inches.	Per Pair.
11	2	\$2.00

b

Swivel Rowlocks.

GALVANIZED.



Fig. 941.

No.	Width between, Horns, Inches.	Per Pair.
0	1½	\$0.70
1	2	.85
2	2½	1.00

BRASS.

00	1½	\$2.25
11	2	2.40
12	2½	3.25

Oars.



Fig. 942.

Ash.

Length, Feet.	Per Pair.	Length, Feet.	Per Pair.
6	\$2.10	14	\$5.60
7	2.45	16	6.40
8	2.80	18	7.65
9	3.15	20	11.00
10	3.50	22	12.65
12	4.20	24	22.50

Boat Cleats.



Fig. 950.

Number.	Length, Inches.	Galvanized Malleable Iron, Per Dozen.	Galvanized Cast Iron, Per Dozen.	Polished Brass, Per Dozen.
1	2	\$0.65	\$0.50	\$1.50
2	3	1.00	.75	3.00
3	4	1.50	1.00	4.00
4	5	1.75	1.25	5.00
5	6	2.25	1.60	7.50
6	7	3.25	2.50	10.25

Open Base Boat Cleats.



Fig. 953.

Number.	Length, Inches.	Galvanized Malleable Iron, Per Dozen.	Galvanized Cast Iron, Per Dozen.	Polished Brass, Per Dozen.
7	3	\$1.50	\$1.00	\$3.00
8	4	1.65	1.20	3.75
9	5	1.85	1.50	5.00
10	6	2.50	2.00	6.50
11	7	3.00	2.50	8.00
12	8	3.50	3.00	11.50

Main Sheet Cleats.



Fig. 953-a.

Number.	Length, Inches.	Galvanized, Each.	Polished Brass, Each.
1	6	\$0.20	\$0.75
2	7	.25	1.00
3	9	.35	1.75
4	12	.75	3.25
5	18	1.25	5.00

Heavy Cleats.

Cast Iron.



Fig. 954.

Length, 8, 10, 12, 15, 18, 24 inches.

Galvanized, \$0.09 per pound.

Black, .06 per pound.

Any size made to order.

Straight Chocks.



Fig. 955.

Length, Inches.	Black Iron, Per Pound.	Galvanized Iron, Per Pound.	Polished Brass, Each.
2½	.....	.....	\$0.88
3½	.....	.....	.40
4	\$0.09	\$0.12	.60
4½	.09	.12	.70
5	.09	.12	1.00
6	.09	.12	1.80
7	.09	.12	1.80
8	.09	.12	2.20
10	.06	.09	2.60
12	.06	.09	
15	.06	.09	
18	.06	.09	

Bevel Chocks.



Fig. 956.



Fig. 957.

Length, Inches.	Black Iron, Per Pound.	Galvanized Iron, Per Pound.	Polished Brass, Per Pair.
2½	.....	.....	\$0.90
3½	\$0.09	\$0.12	1.00
4½	.09	.12	1.40
5	.09	.12	1.80
6	.09	.12	2.20
7	.09	.12	3.40
8	.09	.12	3.60

Double Head Chocks.



Fig. 958.

Number.	Length, inches.	Galvanized, Each.	Polished Brass, Each.
1	4½	\$0.12	\$0.60
2	6	.25	1.50
3	7½	.40	2.25
4	9	.60	3.25

Closed Chocks.

Cast Iron.



Fig. 959.

Length, 8, 10, 12, 15, 18 inches.

Galvanized, \$0.09 per pound.

Black,06 per pound.

Screw Eye Bolts.

Galvanized.

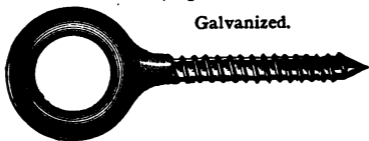


Fig. 962.

Dia. of Screw, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{4}$	2	\$1.20
$\frac{5}{16}$	$2\frac{1}{4}$	1.40
$\frac{3}{8}$	$2\frac{1}{2}$	1.60
$\frac{7}{16}$	$2\frac{3}{4}$	2.00
$\frac{1}{2}$	$3\frac{1}{4}$	2.40
$\frac{5}{8}$	4	3.20
$\frac{3}{4}$	$4\frac{1}{4}$	5.80
$\frac{7}{8}$	5	8.50
1	6	10.00

Screw Ring Bolts.

Galvanized.



Fig. 963.

Dia. of Screw, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{4}$	2	\$1.60
$\frac{5}{16}$	$2\frac{1}{4}$	2.40
$\frac{3}{8}$	$2\frac{1}{2}$	2.80
$\frac{7}{16}$	$2\frac{3}{4}$	3.20
$\frac{1}{2}$	$3\frac{1}{4}$	3.60
$\frac{5}{8}$	4	5.50
$\frac{3}{4}$	$4\frac{1}{4}$	8.50

Nut Eye Bolts.

Galvanized.

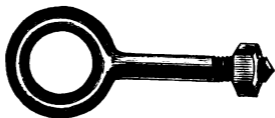


Fig. 964.

Dia. of Bolt, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{2}$	2	\$1.40
$\frac{5}{16}$	2 $\frac{1}{2}$	1.60
$\frac{3}{8}$	2 $\frac{1}{2}$	1.80
$\frac{7}{16}$	2 $\frac{1}{2}$	2.30
$\frac{1}{2}$	3 $\frac{1}{2}$	2.60
$\frac{3}{4}$	4	3.60
$\frac{1}{2}$	4 $\frac{1}{2}$	6.20

Nut Ring Bolts.

Galvanized.



Fig. 965.

Dia. of Bolt, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{2}$	2	\$2.00
$\frac{5}{16}$	2 $\frac{1}{2}$	2.60
$\frac{3}{8}$	2 $\frac{1}{2}$	3.00
$\frac{7}{16}$	2 $\frac{1}{2}$	3.50
$\frac{1}{2}$	3 $\frac{1}{2}$	3.80
$\frac{3}{4}$	4	6.00
$\frac{1}{2}$	4 $\frac{1}{2}$	9.50

Eye Bolts to Rivet.

Galvanized.



Fig. 966.

Dia. of Bolt, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{4}$	4	\$1.20
$\frac{5}{16}$	$4\frac{1}{2}$	1.40
$\frac{3}{8}$	$4\frac{1}{2}$	1.60
$\frac{7}{16}$	$4\frac{1}{2}$	2.00
$\frac{1}{2}$	$5\frac{1}{2}$	2.40
$\frac{5}{8}$	$5\frac{1}{2}$	3.20
$\frac{3}{4}$	6	5.80
$\frac{7}{8}$	7	8.50
1	8	10.00

Made to order only.

Ring Bolts to Rivet.

Galvanized.



Fig. 967.

Dia. of Bolt, Inches.	Length under Eye, Inches.	Per Dozen.
$\frac{1}{4}$	4	\$1.60
$\frac{5}{16}$	$4\frac{1}{2}$	2.40
$\frac{3}{8}$	$4\frac{1}{2}$	2.80
$\frac{7}{16}$	$4\frac{1}{2}$	3.20
$\frac{1}{2}$	$5\frac{1}{2}$	3.60
$\frac{5}{8}$	$5\frac{1}{2}$	5.50
$\frac{3}{4}$	6	8.50
$\frac{7}{8}$	7	13.00
1	8	19.00

Made to order only.

Screw Hooks.

Galvanized.



Fig. 968.

Diameter,	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	inches.
Price,	\$0.80	.90	1.00	1.40	1.80	2.60	4.20	per dozen.

Rings on Plates.



Fig. 969.

Galvanized.

Dia. of Ring,

$\frac{1}{2}$ inch.

\$2.50 per dozen.

Hooks on Plates.



Fig. 970.

Galvanized.

Dia. of Hook,

$\frac{1}{2}$ inch.

\$2.00 per dozen.

Brass Eye Bolts.

Polished.



Fig. 971.

Number.	Dia. of Eye Inside, Inches.	Length of Screw, Inches.	Each.
1	$\frac{3}{8}$	1	\$0.30
2	$\frac{1}{2}$	$1\frac{1}{2}$	.85
3	$\frac{3}{4}$	$1\frac{1}{2}$	.45
4	1	$1\frac{1}{2}$	.50
5	$1\frac{1}{8}$	$1\frac{1}{2}$	.60

Lacing Eyes.



Fig. 972.

Number.	Dia. of Eye, Inches.	Length of Screw, Inches.	Galvanized, Per Dozen.	Brass, Per Dozen.
1	$\frac{5}{16}$	1	\$0.35	\$0.50
2	$\frac{3}{8}$	$1\frac{1}{2}$	.40	.75
3	$\frac{1}{2}$	$1\frac{1}{2}$	.50	1.00

Lacing Eyes.

With Lip.



Fig. 973.

Number.	Dia. of Eye, Inches.	Galvanized, Per Dozen.	Brass, Per Dozen.
11	$\frac{5}{16}$	\$0.35	\$0.50
12	$\frac{3}{8}$	.40	.75
13	$\frac{1}{2}$	.50	1.00

Fair Leaders.

Polished Brass.



Fig. 974.

Number.	Dia. of Opening, Inches.	Each.
1	$\frac{1}{8}$	\$0.35
2	$\frac{3}{8}$	.45
3	$\frac{1}{2}$	.60
4	$\frac{3}{4}$	.70

Fair Leaders.

With Ball Socket.

Polished Brass.

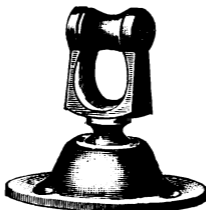


Fig. 975.

Number.	Dia. of Opening, Inches.	Each.
11	$\frac{1}{8}$	\$0.90
12	$\frac{3}{8}$	1.00
13	$\frac{1}{2}$	1.10
14	$\frac{3}{4}$	1.50

Tackle Hooks.

With Thimbles for Manila Rope.



Fig. 986.

1, 1½, 1½, 1½, 1½, 2

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
¼	\$1.50	\$1.40
$\frac{5}{16}$	1.60	1.50
$\frac{3}{8}$	1.75	1.60
$\frac{7}{16}$	1.90	1.70
½	2.00	1.80
$\frac{5}{8}$	2.50	2.25
¾	3.50	3.00
⅞	4.50	4.00
	Per Pound.	Per Pound.
	\$0.20	\$0.16

For size, measure the diameter of the iron in the middle of the bend.

Sister Hooks.

With Thimbles for Manila Rope.



Fig. 987.

1, 1½, 1½, 1½, 1½, 2

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
¼	\$2.50	\$2.40
$\frac{5}{16}$	2.50	2.40
$\frac{3}{8}$	2.50	2.40
$\frac{7}{16}$	2.60	2.50
½	2.75	2.55
$\frac{5}{8}$	3.50	3.25
¾	4.75	4.25
⅞	6.75	6.25
	Per Pound.	Per Pound.
	\$0.22	\$0.18

For size, measure the diameter of the iron in the middle of the bend, with the hooks closed.

Tackle Hooks.

With Thimbles for Wire Rope.



Fig. 988.

1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$, 2

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$2.00	\$1.90
$\frac{5}{16}$	2.10	2.00
$\frac{3}{8}$	2.25	2.10
$\frac{7}{16}$	2.50	2.30
$\frac{1}{2}$	2.60	2.40
$\frac{5}{8}$	3.25	3.00
$\frac{3}{4}$	4.25	3.75
$\frac{7}{8}$	5.25	4.75
	Per Pound.	Per Pound.
	\$0.22	\$0.18

For size, measure the diameter of the iron in the middle of the bend.

Sister Hooks.

With Thimbles for Wire Rope.



Fig. 989.

1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$, 2

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$3.00	\$2.90
$\frac{5}{16}$	3.00	2.90
$\frac{3}{8}$	3.00	2.90
$\frac{7}{16}$	3.25	3.15
$\frac{1}{2}$	3.35	3.20
$\frac{5}{8}$	4.25	4.00
$\frac{3}{4}$	5.25	4.75
$\frac{7}{8}$	7.25	6.75
	Per Pound.	Per Pound.
	\$0.25	\$0.20

For size, measure the diameter of the iron in the largest part of the hooks in the bend, with the hooks closed.

Small Eye Block Hooks.



Fig. 990.

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$1.40	\$1.30
$\frac{5}{16}$	1.50	1.40
$\frac{3}{8}$	1.60	1.50
$\frac{7}{16}$	1.70	1.60
$\frac{1}{2}$	1.80	1.70
$\frac{3}{4}$	2.25	2.10
$\frac{1}{2}$	3.00	2.75
$\frac{3}{4}$	4.00	3.50
	Per Pound.	Per Pound.
1, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, 2	\$0.20	\$0.16

For size, measure the diameter of the iron in the middle of the bend.

Small Eye Sister Hooks.



Fig. 991.

Size.	Galvanized, Per Dozen.	Black, Per Dozen.
$\frac{1}{2}$	\$2.40	\$2.30
$\frac{5}{16}$	2.40	2.30
$\frac{3}{8}$	2.40	2.30
$\frac{7}{16}$	2.50	2.40
$\frac{1}{2}$	2.60	2.45
$\frac{3}{4}$	3.30	3.10
$\frac{1}{2}$	4.50	4.00
$\frac{3}{4}$	6.50	6.00
	Per Pound.	Per Pound.
1, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, 2	\$0.22	\$0.18

For size, measure the diameter of the iron in the middle of the bend with the hooks closed.

Swivel Hooks.



Fig. 992.

Dia. of Iron in Hook.	With Thimble.		Without Thimble.	
	Galv'd Per Dz.	Black, Per Dz.	Galv'd, Per Dz.	Black, Per Dz.
$\frac{1}{2}$	\$3.50	\$3.00	\$3.35	\$2.85
$\frac{3}{8}$	4.00	3.50	3.75	3.25
$\frac{1}{4}$	6.00	5.50	5.75	5.25
$\frac{3}{16}$	9.00	8.50	8.75	8.25
1, 1 $\frac{1}{2}$, 1 $\frac{1}{4}$, 1 $\frac{1}{8}$	Per Lb.	Per Lb.	Per Lb.	Per Lb.
	\$0.28	\$0.25	\$0.28	\$0.25



Fig. 992-a.

Gaff-Topsail Hooks.

Galvanized.

Coleman's



Fig. 993.

Size.	Each.
$\frac{1}{2}$	\$0.20
$\frac{5}{16}$	.25
$\frac{3}{8}$	.30
$\frac{1}{4}$	.50
$\frac{3}{8}$	.75
$\frac{1}{2}$	1.15
$\frac{3}{4}$	1.40

Henshaw's



Fig. 994.

Size.	Each.
$\frac{7}{16}$	\$0.35
$\frac{1}{2}$	.40
$\frac{3}{8}$	.80
$\frac{1}{4}$	.90
$\frac{3}{8}$	1.00

Flour Barrel Hooks.



Fig. 995.

Wrought Iron.

Galvanized, \$0.17 per pound.

Black,14 per pound.

Box Hooks.



Fig. 996.

Wrought Iron.

Galvanized, \$0.17 per pound.

Black,14 per pound.

Bale Hooks.



Fig. 997.

Wrought Iron.

Galvanized, \$0.17 per pound.

Black,14 per pound.

Barrel Hooks.



Fig. 998.

Size.	Galvanized. Per Pound.	Black.
$\frac{1}{2}$ inch	\$0.17	\$0.14
$\frac{3}{4}$ inch		

$\frac{1}{2}$ inch are used for barrels.

$\frac{3}{4}$ inch are used for tierces.

Sheath Knives.



Fig. 999.

No. 1, with Bolster, \$5.00 per dozen.

No. 2, without Bolster, 4.00 per dozen.

Cold Chisels.

Best Cast Steel.



Fig. 1000.

Dia.	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1 inch.
	\$1.75	1.75	2.00	2.25	3.25	4.50	5.75	7.25 per Doz.

United States Ensigns.

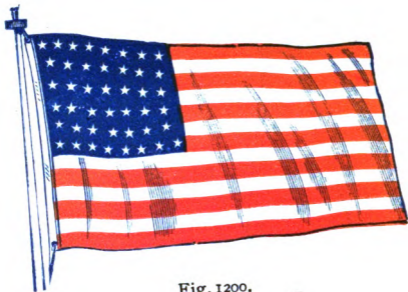


Fig. 1200.

Yacht Ensigns.

U. S. Jack.

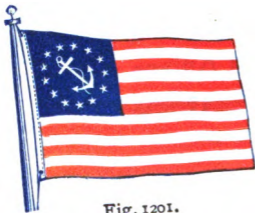


Fig. 1201.



Fig. 1202.

U. S. Pennant.



Fig. 1203.

United States Ensigns.

These flags are made of standard bunting; the stars are stitched in by machine, and all the work is done in the best and most substantial manner.

Length, Feet.	Width, Feet.	Price, Each.	Length, Feet.	Width, Feet.	Price, Each.
3	2	\$2.00	20	10	\$24.20
4	2½	2.70	20	12	27.50
5	3	3.10	22	11	29.70
6	4	4.40	22	14	34.70
7	4	5.20	24	12	32.50
8	5	6.10	24	15	37.40
9	6	7.50	25	13	35.10
10	5	8.00	25	15	40.10
10	6	8.50	28	14	44.60
12	6	10.40	28	16	49.50
12	8	11.10	30	15	50.50
15	8	14.50	30	20	57.50
15	10	16.80	36	18	64.60
18	10	22.00	36	20	67.50
18	12	24.20	40	20	79.00

Sizes 5 x 3 and larger contain 44 stars.
Smaller sizes contain 13 stars.

U. S. Yacht Ensigns.

Of the same quality and workmanship as our U. S. Ensigns.

Length, Feet.	Width, Feet.	Price, Each.	Length, Feet.	Width, Feet.	Price, Each.
2	1½	\$1.80	5	3	\$3.50
2½	1½	2.00	6	4	4.80
3	2	2.20	7	4	5.75
4	2½	2.80	8	5	7.20

Silk Flags of superior finish made to order and prices quoted upon application.

U. S. Jacks.

Length, Feet.	Width, Feet.	Price, Each.	Length, Feet.	Width, Feet.	Price, Each.
2	1½	\$2.90	6	4½	\$ 7.20
2½	2	3.25	8	6	10.10
3	2	3.60	10	8	15.15
4	3	4.35	12	9	18.00
5	4	5.05	15	12	31.70

U. S. Pennants.

4 to 75 feet, - \$0.30 per running foot.

Bunting Flies.

For Mastheads, - \$0.25 per running foot.

Club Signals.

Length, Inches.	Width, Inches	Price, Each.	Length, Inches.	Width, Inches.	Price, Each.
21	14	\$2.20	36	24	\$4.00
24	16	2.50	48	32	4.80
30	20	3.20	60	40	6.00

Flag Poles.

With Ball, Truck and Halliards.

Length,	8	10	12	14 feet.
	\$1.50	1.90	2.00	2.75 each.

Adjustable Flag Staff Brackets.

Number	1	2	3	4	5
Dia. of Pole,	1	1½	1½	1½	2 inches.
	\$1.60	1.70	1.85	2.50	2.90 each.

Burgees.



Prices on plain Burgees made of Standard Bunting, with or without border, with 10 letters or less.

Length, Feet.	Width at Head, Feet.	Width at Swallow, Feet.	Each.	Extra for each letter above 10	Extra for 2 Stars at Head.
5	2½	1½	\$6.15	\$0.26	\$0.55
6	3	1¾	6.40	.32	.60
8	4	2	8.55	.40	.65
10	4½	2½	9.88	.51	.70
12	6	3	13.25	.57	.80
15	7½	3¾	17.10	.65	1.00
18	9	4½	21.80	.75	1.30
20	9	4½	23.95	.82	1.45
21	11	5½	29.05	.90	1.60
25	12	6	36.35	1.00	1.75
30	15	7½	53.00	1.00	1 90

In ordering, state colors wanted.

Any special style or size of Burgee made to order and prices quoted upon application.

Foreign Flags.

Length.	3	4	5	6	8	10	12	15	18 ft.
France,	\$1.95	2.75	3.15	4.85	6.85	8.95	12.40	19.90	22.70
Germany,	1.95	2.75	3.15	4.85	6.85	8.95	12.40	19.90	22.70
England,	2.85	3.60	4.05	6.10	8.25	11.35	15.55	23.44	28.35
Ireland,	2.45	3.25	3.85	5.50	8.10	10.55	14.90	21.95	26.50
Italy,	2.45	3.25	3.85	5.50	8.10	10.55	14.90	21.95	26.50
Russia,	1.95	2.75	3.15	4.85	6.85	8.95	12.40	19.90	22.70
Spain,	1.95	2.75	3.15	4.85	6.85	8.95	12.40	19.90	22.70
Sweden,	2.85	3.60	4.05	6.10	8.25	11.35	15.55	23.44	28.35

Flag Pole Brackets.

Galvanized.



Fig. 1241.

Number.	Dia. of Pole, Inches.	Per Dozen.
2	$\frac{3}{8}$	\$1.50
3	$\frac{1}{2}$	1.85
5	1	3.60
6	$1\frac{1}{4}$	4.85
7	$1\frac{1}{2}$	6.00
9	2	12.00

Adjustable Flag Pole Brackets.

Number.	Dia. of Pole, Inches.	Per Dozen.
11	1	\$6.00
12	$1\frac{1}{4}$	9.00
13	$1\frac{1}{2}$	10.00
14	$1\frac{3}{4}$	15.00
15	2	17.50

Flag Poles.

Complete with Ball, Truck and Halyards.



Length,	8	10	12	14	feet.
Dia. at bottom, 1½	1½	1½	2		inch.
	\$1.00	1.25	1.50	2.00	each.

Eagles.

Gilded.



Spread, Inches.	Each.
3	\$1.25
4	2.25
6½	3.25
7	4.00
10	5.00
13	8.00
14	10.00
18	15.00
22	16.50
30	24.00

Mast-head Trucks.

Lignumvitae.



Fig. 704.

Size, Inches.	Two Holes, Each.	One Sheave, Each.	Two Sheaves Each.
3	\$0.20	\$0.45	\$0.65
3½	.22	.50	.70
4	.25	.55	.80
4½	.28	.60	.90
5	.33	.65	1.00
5½	.38	.75	1.10
6	.45	.85	1.20
7	1.00	1.50	2.00
8	1.50	2.00	2.50

Gilt Balls.

On Spindles. Hollow Copper Balls, Gilded.

Number.	Dia. of Ball, Inches.	Each.
3	3	\$1.12
4	4	1.75
5	5	2.50
6	6	3.15
7	7	4.50
8	8	5.25
10	10	11.65
12	12	18.00

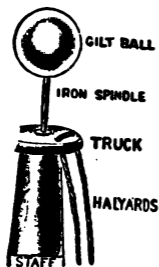


Fig. 1246.

Gilt Balls.

On Spindles.
Wooden Balls, Gilded.

Number.	Dia. of Ball, Inches.	Each.
22	2	\$0.75
22½	2½	.75
23	3	.75
23½	3½	.85
24	4	.95
25	5	1.25
26	6	1.50

Gilt Balls.

On Spindles, with Swivels for Flies.
Wooden Balls, Gilded.

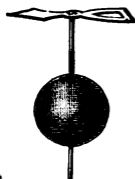


Fig. 1248.

Number.	Dia. of Balls, Inches.	Each.
32	2	\$1.00
32½	2½	1.35
33	3	1.65
33½	3½	2.00
34	4	2.35
35	5	2.65
36	6	2.95

Cotton Duck.

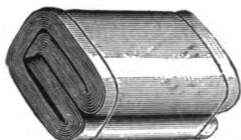


Fig. 1270.

Number.	Weight per Yard, Ounces.	Standard Sail Duck, Hard, Soft and Medium.		Yacht Duck.
		Width 22 inch, Per Yard.	Width 24 inch, Per Yard.	Width 14 inch, Per Yard.
00	20	\$0.36	\$0.39	\$0.27
0	19	.34	.37	.26
1	18	.32	.35	.25
2	17	.30	.33	.24
3	16	.28	.31	.23
4	15	.27	.30	.22
5	14	.26	.29	.21
6	13	.25	.28	.20
7	12	.24	.26	.19
8	11	.23	.25	.18
9	10	.21	.23	.17
10	9	.20	.22	.16
11	8	.19	.21	
12	7	.18	.20	

Weight, Per Yard, Ounces.	U. S. Army Duck, Width 28 1-2 inch, Per Yard.	Special Duck, Width 28 1-2 inch, Per Yard.	Sail Boat Duck, Per Yard.	Canoe Duck, Per Yard.
7			\$0.13½	\$0.13½
8	\$0.14	\$0.13½		
9	.16	.15½		
10	.17½	.17		
12	.21	.20½		
15	.27	.26		

Nos. 00 to 12 Hard Sail Duck carried in stock.
 Nos. 00 to 6 Soft and Medium Sail Duck carried in stock.

Wide Cotton Duck.

Width, Inches.	NUMBERS.						
	0	1	2	3	4	5	6
26	\$0.40	\$0.38	\$0.35	\$0.33	\$0.31	\$0.29	\$0.27
28	.43	.40	.38	.36	.34	.31	.29
30	.46	.43	.41	.38	.36	.34	.31
32	.49	.46	.44	.41	.38	.36	.33
34	.52	.49	.46	.44	.41	.38	.35
36	.55	.52	.49	.46	.43	.40	.38
38	.58	.55	.52	.49	.46	.43	.40
40	.61	.58	.54	.51	.48	.45	.42
42	.64	.60	.57	.54	.50	.47	.44
44	.67	.63	.60	.56	.53	.49	.46
46	.70	.66	.62	.59	.55	.51	.48
48	.73	.69	.65	.61	.58	.54	.50
50	.76	.72	.68	.64	.60	.56	.52
52	.79	.75	.71	.66	.62	.58	.54
54	.82	.78	.73	.69	.65	.60	.56
56	.85	.80	.76	.72	.67	.63	.58
58	.88	.83	.79	.74	.69	.65	.60
60	.91	.86	.81	.77	.72	.67	.62
62	.94	.89	.84	.79	.74	.69	.64
64	.97	.92	.87	.82	.77	.72	.66
66	1.00	.95	.90	.84	.79	.74	.69
72	1.09	1.03	.98	.92	.86	.80	.75
74	1.12	1.06	1.00	.94	.89	.83	.77
76	1.15	1.09	1.03	.97	.91	.85	.79
80	1.21	1.15	1.08	1.02	.96	.89	.83
84	1.32	1.25	1.18	1.11	1.04	.97	.90
92	1.54	1.46	1.38	1.30	1.22	1.14	1.06
96	1.71	1.62	1.53	1.44	1.35	1.26	1.17
108	1.93	1.83	1.73	1.63	1.53	1.42	1.32
120	2.14	2.03	1.92	1.80	1.69	1.58	1.47

Wide Duck in hard finish only carried in stock.

Wide Cotton Duck.

Width, Inches.	NUMBERS.					
	7	8	9	10	11	12
26	\$0.27	\$0.25	\$0.23	\$0.21	\$0.19	\$0.17
28	.29	.27	.25	.22	.21	.19
30	.31	.28	.27	.24	.22	.20
32	.33	.30	.28	.26	.24	.21
34	.35	.32	.30	.27	.25	.23
36	.37	.34	.32	.29	.26	.24
38	.39	.36	.34	.30	.28	.25
40	.41	.38	.35	.32	.29	.26
42	.43	.40	.37	.34	.31	.28
44	.45	.42	.39	.35	.32	.29
46	.47	.43	.41	.37	.34	.30
48	.49	.45	.43	.38	.35	.32
50	.51	.47	.44	.40	.37	.33
52	.53	.49	.46	.41	.38	.34
54	.55	.51	.48	.43	.40	.36
56	.58	.53	.50	.45	.41	.37
58	.60	.55	.51	.46	.42	.38
60	.62	.57	.53	.48	.44	.40
62	.64	.58	.55	.49	.45	.41
64	.66	.60	.57	.51	.47	.42
66	.68	.62	.58	.53	.48	.44
72	.74	.68	.64	.57	.53	.47
74	.76	.70	.65	.59	.54	.49
76	.78	.72	.67	.61	.56	.50
80	.82	.75	.71	.64	.58	.53
84	.89	.82	.77	.69	.63	.57
92	1.04	.96	.89	.80	.74	.66
96	1.15	1.05	.98	.88	.81	.73
108	1.29	1.19	1.11	1.00	.92	.82
120	1.44	1.32	1.23	1.11	1.05	.95

Wide Duck in hard finish only carried in stock.

Ring Clews.

Galvanized.



Fig. 1279.

Dia. of Iron, Inches.	Each.
$\frac{1}{8}$	\$0.15
$\frac{7}{16}$	.18
$\frac{1}{2}$	.20
$\frac{9}{16}$	.25
$\frac{5}{8}$	.28
	Per Pound.
$\frac{1}{4}$, $\frac{1}{2}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$	\$0.14

In ordering, give the diameter of the iron, with width of Thimble (outside measure) across the score.

Spectacle Clews.

Galvanized.



Fig. 1280.

Dia. of Iron, Inches.	Each.
$\frac{1}{8}$	\$0.30
$\frac{7}{16}$	.35
$\frac{1}{2}$	.40
$\frac{5}{8}$	.48
	Per Pound.
$\frac{1}{4}$, $\frac{1}{2}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$	\$0.16

Heart Clews.

Galvanized.



Fig. 1281.

Dia. of Iron, Inches.	Each.
$\frac{3}{8}$	\$0.35
$\frac{1}{2}$	.40
$\frac{5}{8}$	.45
Per Pound.	
$\frac{3}{8}, \frac{1}{2}, 1, 1\frac{1}{8}, 1\frac{1}{4}$	\$0.16

Bar Clews.

Galvanized.



Fig. 1282.

Dia. directly over the Eye, Inches.	Each.
$\frac{3}{8}$	\$0.65
$\frac{1}{2}$	.85
$\frac{5}{8}$	1.15
Per Pound.	
$\frac{3}{8}, \frac{1}{2}, 1, 1\frac{1}{8}, 1\frac{1}{4}$	\$0.16

Bow Clews.

Galvanized.



Dia. directly over the Eye, Inches.	Per Pair.
$\frac{3}{8}$	\$0.65
$\frac{1}{2}$	.85
$\frac{5}{8}$	1.15
	Per Pound.
$\frac{3}{8}, \frac{7}{8}, 1, 1\frac{1}{8}, 1\frac{1}{4}$	\$0.16

Fig. 1283.

Course Clews.

Galvanized.



Dia. directly over Eye, Inches.	Per Pair.
$\frac{3}{8}$	\$0.65
$\frac{1}{2}$	.85
$\frac{5}{8}$	1.15
	Per Pound.
$\frac{3}{8}, \frac{7}{8}, 1, 1\frac{1}{8}, 1\frac{1}{4}$	\$0.16

Fig. 1284.

Heart Earing Clews.

Galvanized.



Fig. 1285.

Dia. of Iron, Inches.	Each.
$\frac{3}{8}$	\$0.30
$\frac{1}{2}$	.35
$\frac{5}{8}$	.38
	Per Pound.
$\frac{3}{8}$, $\frac{1}{2}$, 1, $1\frac{1}{8}$, $1\frac{1}{2}$	\$0.16

Link Earing Clews.

Galvanized.



Fig. 1286.

Dia. of Iron, Inches.	Each.
$\frac{1}{2}$	\$0.75
$\frac{5}{8}$	.90
	Per Pound.
$\frac{1}{2}$, $\frac{5}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{2}$	\$0.20

Sail Needles.

James Smith & Sons.



Fig 1287.
LONG SQUARE.

Number.	Per Hundred.	Number.	Per Hundred.
17	\$1.30	13	\$2.75
17½	1.30	12	3.60
16	1.30	11	5.50
16½	1.30	10	6.50
15	1.30	9	7.50
15½	1.30	8	8.50
14	1.50	7	9.75
14½	1.75	6	11.00

25 in a Package.

Reduced Edge Sail Needles, No. 17 to No 12.
List same as above.

SHORT SQUARE.

	Per Hundred.		Per Hundred.
Flat Seam,	\$1.35	Small Bolt Rope,	\$2.75
Tabline, . . .	1.35	Middle Bolt Rope,	3.30
Old Work, . . .	1.45	Large Bolt Rope,	3.75
Store,	1.60	Small Marline,	5.00
Head Rope, . . .	2.10	Large Marline,	6.00

25 in a Package.

Packing or Sack Needles.

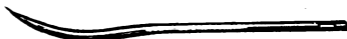


Fig. 1288.

Number.	Length, Inches.	Per Gross.	Number.	Length, Inches.	Per Gross.
14	3	\$2.00	9	6	\$4.00
13	3½	2.00	8	6½	4.33
12	4	2.25	7	7	5.33
11	4½	2.67	6	8½	8.00
10	5	3.00			

3 dozen in a Package.

Sailors' Palms.



Fig. 1289.

	Per Doz.
1 Half Hide Mounted, Seaming,	\$1.50
2 Full Hide Mounted, Seaming,	2.00
3 Brass Mounted, Seaming,	2.00
4 Hide and Brass Mounted, Seaming,	2.25
5 Hide Mounted, Seaming, with Buckle,	2.50
6 Hide Mounted, Roping,	2.25
7 All Hide, Seaming, Extra Stitched, with Buckle,	5.25

Sailmakers' Palms.



Fig. 1290.

	Each.
10 Special Seaming,	\$1.50
11 Special Roping,	2.00
12 Mullen's Pattern, Seaming,	2.00
13 Mullen's Pattern, Roping,	2.50

Sheaths and Belts.

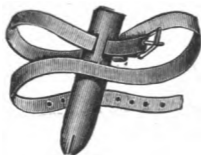


Fig. 1291.

No.		Per Doz.	Belts Only, Per Dozen.
1	Common, Belts $\frac{1}{4}$ inch wide	\$2.75	\$1.85
2	Medium, Belts $\frac{3}{8}$ inch wide	3.50	2.25
3	Extra, Belts 1 inch wide	4.25	3.15

Sailmakers' Heavers.

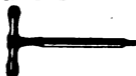


Fig. 1292.

\$1.50 each.

Sailmakers' Prickers.

Wood Handles.

Steel Points.



Fig. 1293.

Length,	8	10	inch.
	\$0.40	.75	each.

Hand Fids.



Fig. 1294.

Number,	1	2	3	4	
Length,	14	16	18½	20½	inch.
	\$0.25	.30	.35	.40	each.

Standing Fids.

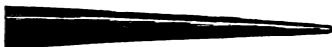


Fig. 1295.

Number,	1	2	3	4	
Length,	30	32	36	40	inch.
Dia. of Butt,	4	5	6	6½	inch.
	\$1.50	2.00	2.50	3.00	each.

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Machine Thread.

ON SPOOLS.

Order
Number

- 50 4 thd No. 16, Unbleached,
500 yards on spool.
- 52 3 thd No. 36, Red, Black and Un-
bleached,
500 yards on spool.
- 48 3 thd No. 20, Unbleached,
2 ounces on spool.
- 44 4 thd No. 20, Unbleached,
2 ounces on spool.
- 45 5 thd No. 20, Unbleached,
2 ounces on spool.

Spool.



Fig. 1305.

ON PATENT COILS.

Order
Number

- 51 4 thd No. 16, Unbleached,
7,200 yards on coil.
- 53 3 thd No. 16, Red, Black and Un-
bleached,
12,000 yards on coil.
- 54 3 thd No. 10, Grey, 1 pound on coil.
- 55 4 thd No. 10, Grey, 1 pound on coil.
- 56 5 thd No. 10, Grey, 1 pound on coil.
- 57 6 thd No. 10, Grey, 1 pound on coil.

Patent Coil.



Fig. 1306.

Cotton Sail Twine.



Fig. 1307.

In $\frac{1}{4}$ lb. Balls.

4, 5, 6, 7 and 8 Ply.

Beeswax.

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Closed Thimbles. Galvanized Malleable Iron.



Fig. 1317.

Outside Dia. Inches.	LIGHT, Per Dozen.	HEAVY, Per Dozen.	NAVY, Wide Score, Per Dozen.	GLOU- CESTER, Extra Wide Score, Per Dozen.
$\frac{3}{4}$	\$0.25			
$\frac{7}{8}$	.30			
1	.35			
$1\frac{1}{8}$	.38			
$1\frac{1}{4}$	.40			
$1\frac{3}{8}$	.40			
$1\frac{1}{2}$	.45			
$1\frac{3}{4}$	.50			
2	.60	\$0.70	\$1.15	
$2\frac{1}{4}$	.70	.85	1.35	\$1.80
$2\frac{1}{2}$	.80	1.25	1.80	2.25
$2\frac{3}{4}$	.95	1.60	2.00	2.70
3	1.10	1.70	2.35	3.15
$3\frac{1}{4}$	1.35	1.90	2.70	
$3\frac{1}{2}$	1.70	2.15	3.00	
$3\frac{3}{4}$	.....	2.80	3.60	
4	.....	3.25	4.00	
$4\frac{1}{4}$	.....	3.60	4.50	
$4\frac{1}{2}$	.....	4.30	5.65	
$4\frac{3}{4}$	.....	5.40	6.10	
5	.....	6.30	6.55	

Egg Thimbles. Galvanized Malleable Iron.



Fig. 1318.

Length,	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3 inches.
	\$0.50	.60	.70	.80	.90	1.25	1.75 per dozen.

Brass Thimbles.



Fig. 1319.

Outside Dia. Inches.	Per Dozen.	Outside Dia. Inches.	Per Dozen.
$\frac{3}{8}$	\$0.60	$1\frac{1}{4}$	\$0.75
$\frac{1}{2}$	.65	$1\frac{1}{2}$	.88
$\frac{7}{8}$	.68	$1\frac{3}{4}$	1.00
1	.70	$1\frac{7}{8}$	1.25
$1\frac{1}{4}$	.73	2	1.50

$2\frac{1}{4}$ to 5 inches, \$0.60 per pound.

5-8, 3-4 and 7-8 inch are made of Spun Brass.

Larger sizes are made of Cast Brass.

Lip Thimbles.

Galvanized Malleable Iron.



Fig. 1320.

Diameter the longest way from outside to outside, Inches.	Per Dozen.
$2\frac{1}{4}$	\$1.80
$2\frac{1}{2}$	2.00
$2\frac{3}{4}$	2.25
3	3.00
$3\frac{1}{4}$	4.00

Open Thimbles.

Wrought Iron.



Fig. 1321.

Outside Dia. Inches.	Galvanized, Per Dozen.	Plain, Per Dozen.	Outside Dia. Inches.	Galvanized, Per Dozen.	Plain, Per Dozen.
$\frac{1}{8}$	\$0.28	\$0.24	2	\$0.60	\$0.50
$\frac{1}{4}$	.28	.24	2 $\frac{1}{2}$	.90	.70
1	.28	.24	2 $\frac{3}{4}$	1.10	.80
1 $\frac{1}{4}$	.32	.28	2 $\frac{7}{8}$	1.40	1.00
1 $\frac{1}{2}$	.36	.32	3	1.60	1.25
1 $\frac{3}{4}$	.45	.35			

3 $\frac{1}{4}$, 3 $\frac{1}{2}$, 3 $\frac{3}{4}$, 4, 4 $\frac{1}{4}$, 5, 5 $\frac{1}{4}$, 6 inch.
 Galvanized, \$0.20 per pound.
 Plain, .16 per pound.

Wire Rope Thimbles.

Galvanized Wrought Iron.



Fig. 1322.

Dia. of Rope, Inches.	Per Dozen.	Dia. of Rope, Inches.	Per Dozen.
$\frac{3}{16}$	\$1.00	1	\$2.25
$\frac{1}{4}$	1.10	1 $\frac{1}{2}$	2.50
$\frac{5}{16}$	1.15	1 $\frac{3}{4}$	3.25
$\frac{3}{8}$	1.20	1 $\frac{5}{8}$	4.00
$\frac{7}{16}$	1.30	1 $\frac{1}{2}$	4.50
$\frac{1}{2}$	1.40	1 $\frac{3}{8}$	5.50
$\frac{5}{8}$	1.60	1 $\frac{1}{4}$	6.50
$\frac{3}{4}$	1.75	1 $\frac{1}{2}$	8.00
$\frac{7}{8}$	2.00	2	9.00

Open Thimbles. Wrought Iron.



Fig. 1321.

Outside Dia. Inches.	Galvanized, Per Dozen.	Plain, Per Dozen.	Outside Dia. Inches.	Galvanized. Per Dozen.	Plain. Per Dozen.
$\frac{3}{8}$	\$0.28	\$0.24	2	\$0.60	\$0.50
$\frac{7}{8}$	.28	.24	2 $\frac{1}{2}$	.90	.70
1	.28	.24	2 $\frac{3}{4}$	1.10	.80
1 $\frac{1}{4}$	.32	.28	2 $\frac{7}{8}$	1.40	1.00
1 $\frac{1}{2}$	.36	.32	3	1.60	1.25
1 $\frac{3}{4}$	.45	.35			

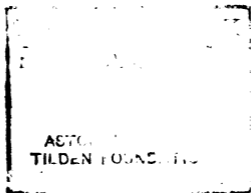
3 $\frac{1}{2}$, 3 $\frac{3}{4}$, 3 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 5, 5 $\frac{1}{2}$, 6 inch.
 Galvanized, . . . \$0.20 per pound.
 Plain,16 per pound.

Wire Rope Thimbles. Galvanized Wrought Iron.



Fig. 1322.

Dia. of Rope, Inches.	Per Dozen.	Dia. of Rops. Inches.	Per Dozen.
$\frac{3}{16}$	\$0.84	1	\$2.40
$\frac{1}{4}$	.84	1 $\frac{1}{4}$	3.00
$\frac{5}{16}$	.96	1 $\frac{1}{2}$	3.96
$\frac{3}{8}$	1.08	1 $\frac{3}{4}$	5.04
$\frac{7}{16}$	1.20	1 $\frac{1}{2}$	6.00
$\frac{1}{2}$	1.32	1 $\frac{3}{4}$	7.80
$\frac{5}{8}$	1.56	1 $\frac{3}{4}$	9.00
$\frac{3}{4}$	1.80	1 $\frac{3}{4}$	11.40
$\frac{7}{8}$	1.92	2	13.20



Grommet Rings.

Galvanized Malleable Iron.



Fig. 1323.

Light.

Inside Dia. Inches.	Per Gross.	Inside Dia. Inches.	Per Gross.
$\frac{5}{16}$	\$0.32	1	\$1.15
$\frac{1}{4}$	.35	$1\frac{1}{8}$	1.30
$\frac{3}{8}$	.40	$1\frac{1}{4}$	1.60
$\frac{1}{2}$	.45	$1\frac{3}{8}$	2.00
$\frac{11}{16}$	.55	$1\frac{1}{2}$	2.60
$\frac{3}{4}$	.65	$1\frac{3}{4}$	3.00
$\frac{13}{16}$	.70	$1\frac{7}{8}$	3.85
$\frac{7}{8}$	.85	2	4.75
$1\frac{1}{8}$	1.00		

Heavy.

Inside Dia. Inches.	Per Gross.	Inside Dia. Inches.	Per Gross.
$\frac{3}{8}$	\$0.50	$1\frac{1}{8}$	\$2.50
$\frac{1}{2}$	.55	$1\frac{1}{4}$	3.15
$\frac{5}{8}$	.70	$1\frac{3}{8}$	3.60
$1\frac{1}{16}$	.80	$1\frac{1}{2}$	4.00
$\frac{3}{4}$	.90	$1\frac{3}{4}$	5.40
$1\frac{3}{16}$	1.15	2	7.20
$1\frac{1}{4}$	1.20	$2\frac{1}{4}$	8.55
$1\frac{5}{16}$	1.35	$2\frac{1}{2}$	9.25
1	1.60	$2\frac{3}{4}$	11.70
$1\frac{1}{16}$	2.00	3	13.00

Always measure the hole in the clear when ordering.

1 1-2 inch and all smaller sizes packed in boxes of one gross each.
 1 3-4, 2 and 2 1-4 inch packed in boxes of one-half gross each. 2 1-2,
 2 3-4 and 3 inch packed in boxes of one-quarter gross each.

In bulk, unground, \$0.35 per pound.

Washer Grommets.

Sheet Brass.



Fig. 1324.



Fig. 1325.

Number.	Dia. of Hole when inserted, Inches.	Per Gross.
0	$\frac{7}{8}$	\$0.70
1	$\frac{5}{16}$	1.80
2	$\frac{1}{4}$	2.00
3	$\frac{7}{16}$	2.70
4	$\frac{1}{2}$	3.00
5	$\frac{3}{4}$	4.00

Teeth Grommets.

Sheet Brass.



Fig. 1326.



Fig. 1327.

Number.	Dia. of Hole when inserted, Inches.	Per Gross.
1	$\frac{5}{16}$	\$1.80
2	$\frac{1}{4}$	2.00
3	$\frac{7}{16}$	2.70
4	$\frac{1}{2}$	3.00
5	$\frac{3}{4}$	4.00

Conical Pointed, Rolled Rim Grommets.

Cast Brass.



Fig. 1328.

Sheet Brass.



Fig. 1329.

Number.	Dia. of Hole, Inserted, Inches.	Per Gross.
2	$\frac{3}{8}$	\$2.00
3	$\frac{7}{8}$	2.70
4	$\frac{1}{2}$	3.60
5	$\frac{3}{4}$	4.75
6	$\frac{3}{4}$	5.50
7	1	7.65
8	$1\frac{1}{8}$	9.00

Spur Grommets.

Sheet Brass.



Fig. 1330.



Fig. 1331.

Number.	Dia. of Hole, Inserted, Inches.	Per Gross.
0	$\frac{1}{4}$	\$1.60
1	$\frac{5}{8}$	1.80
2	$\frac{3}{8}$	2.00
3	$\frac{7}{8}$	2.70
4	$\frac{1}{2}$	3.60
5	$\frac{3}{4}$	4.75
6	$\frac{3}{4}$	5.50
7	1	7.65
8	$1\frac{1}{8}$	9.00

Eyelet Grommets.

Sheet Brass.

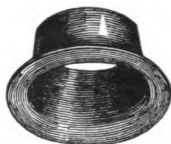


Fig. 1332.

Number.	Dia. at Bottom, Inches.	Per Gross.
1	$\frac{1}{8}$	\$1.15
2	$\frac{1}{8}$	1.35
3	$\frac{1}{4}$	1.60
4	$\frac{1}{4}$	1.80
5	$\frac{1}{2}$	2.25
6	1	2.70
7	$1\frac{1}{8}$	3.15
8	$1\frac{1}{4}$	5.00
10	$1\frac{1}{2}$	6.75
15	$2\frac{1}{2}$	12.00

Three Part Grommets.

Cast Brass.

Sheet Brass.

Cast Brass.



Fig. 1333.



Fig. 1334.



Fig. 1335.

Number.	Dia. of Hole Inserted, Inches.	Per Gross.
1	$\frac{1}{8}$	\$1.80
2	$\frac{3}{8}$	2.00
3	$\frac{1}{2}$	2.70
4	$\frac{3}{4}$	3.60
5	1	4.75
6	$1\frac{1}{8}$	5.50
7	$1\frac{1}{4}$	7.65
8	$1\frac{3}{8}$	8.10
9	$1\frac{1}{2}$	10.85
10	$1\frac{3}{4}$	12.00
15	2	25.00

Cutting Punches.

Regular.



Fig. 1336.

Each.	Regular, Each.	Side, Each.
0	\$1.00	\$0.50
1	1.00	.50
2	1.20	.50
3	1.30	.65
4	1.50	.75
5	1.75	.80
6	2.00	1.00
7	2.25	1.50
8	2.50	1.75
9	2.75	
10	3.00	

Side.



Fig. 1337.

Setting Dies.



Fig. 1338.

Number.	For Washer and Teeth Grommets, Each.	For C. P. R. R. and Spur Grommets, Each.	For Eyelet Grommets, Each.
0	\$2.00	\$2.00	....
1	2.15	2.15	\$2.15
2	2.25	2.25	2.25
3	2.35	2.35	2.35
4	2.50	2.50	2.50
5	2.70	2.70	2.70
6	....	2.80	2.80
7	....	3.00	3.00
8	....	3.25	3.25
9	....	....	3.50
10	....	....	4.50
15	....	....	15.00



Grommet Knobs.

With Brass Head

For use with No. 3 Conical Pointed Rolled Rim Grommets for carpets, matting, etc., in railroad cars, steamboats, halls, and large rooms.

\$3.50 per gross.

Fig. 1348.

Sailmakers' Sister Hooks.

Wide Spread.



Galvanized.

Size, Inches.	Per Dozen.
$\frac{1}{2}$	\$2.50
$\frac{7}{16}$	2.50
$\frac{1}{4}$	3.00
	Per Pound.
$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$	\$0.20

Fig. 1349.

Sailmakers' Mallets.

Hickory.



Fig. 1350.

Diameter, Inches.	Each.
4	\$0.75
5	.85
6	1.00
6 $\frac{1}{2}$	1.45
7	1.75
7 $\frac{1}{2}$	2.00
8	2.25

Harness Snaps.

Oval Eye.



Fig. 1351.

Number.	Dia. Eye Inside, Inches.	Tinned, Per Gross.	Japanned, Per Gross.
1	$\frac{1}{2}$	\$2.12	\$1.80
2	$\frac{3}{4}$	3.00	2.40
3	1	3.00	2.40

Hooks and Eyes.



Fig. 1352.

Brass.

No. 13 Wire.

Length over all, 2 inches.

Per Gross.

Sail Hooks.



Fig. 1353.

With Brass Swivel.

Boat Snaps.

Galvanized.



Fig. 1354.
Round Eye.

Number.	Length, Inches.	Dia. Eye Inside, Inches.	For Dia. Stay, Inches.	Per Dozen.
4	2 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	\$1.00
5	3 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	1.25
6	3 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	2.00
7	4 $\frac{1}{2}$	1	$\frac{1}{4}$	2.25

Jib Snap Hooks.

Galvanized.



Fig. 1355.

Number.	Length, Inches.	For Dia. Stay, Inches.	Per Dozen.
8	2	$\frac{5}{16}$	\$1.25
9	2 $\frac{1}{2}$	$\frac{1}{4}$	1.50
10	2 $\frac{1}{2}$	$\frac{1}{4}$	1.75
11	3	$\frac{1}{4}$	2.00

Wood Screws.

Flat Head Iron.

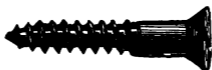
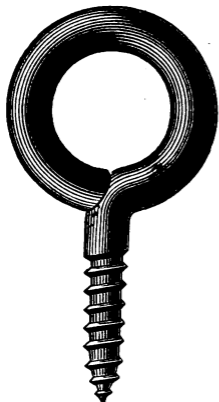


Fig. 1365.

Inch.	No.	Per Gross.	Inch.	No.	Per Gross.	Inch.	No.	Per Gross.
$\frac{1}{2}$	4	\$0.60	$1\frac{1}{4}$	8	\$1.05	2	10	\$1.55
	5	.61		9	1.10		12	1.75
	6	.63		10	1.15		14	2.30
	7	.73		11	1.25		16	2.75
	8	.77		12	1.35		18	3.35
				13	1.50		20	3.75
				14	1.70		22	4.00
				15	1.90		24	4.55
$\frac{5}{8}$	6	.60	$1\frac{1}{2}$	16	2.15	$2\frac{1}{4}$	10	1.70
	5	.64		17	2.25		12	1.95
	6	.69		18	2.45		14	2.40
	7	.75		20	2.85		16	3.00
	8	.81					18	3.55
				8	1.15		20	3.95
				9	1.20		22	4.25
				10	1.25		24	4.80
$\frac{3}{4}$	11	.98	$1\frac{1}{2}$	11	1.40	$2\frac{1}{2}$	12	2.20
	12	1.05		12	1.50		14	2.55
				13	1.65		16	3.15
	6	.76		14	1.85		18	3.80
	7	.82		15	2.10		20	4.40
	8	.87		16	2.30		22	4.70
	9	.90		17	2.50		24	5.35
	10	1.00		18	2.75			
$\frac{7}{8}$	11	1.05	$1\frac{3}{4}$	20	3.00	3	12	2.80
	12	1.10		8	1.35		14	3.05
				10	1.45		16	3.60
	8	.95		12	1.65		18	4.45
	9	1.00		14	2.00		20	5.25
	10	1.10		16	2.50		22	5.70
	11	1.15		18	2.95		24	6.40
	12	1.20		20	3.50		26	7.50
1	13	1.35		22	3.90			
	14	1.55		24	4.35			
	15	1.75						
	16	1.95						

Screw Eyes.

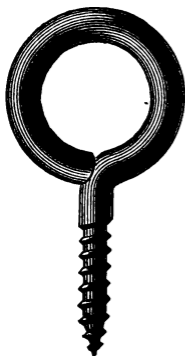
Bright Iron Wire.



No. 4.

Number.	Per Gross.
0	\$9.00
1	7.50
2	6.00
3	5.00
4	4.00
5	3.00
6	2.50
7	2.00
8	1.70
9	1.50
10	1.40
104	3.10
105	2.60
106	2.20
107	1.80
108	1.60
109	1.45
110	1.35

Nos. 4, 6 and 8 also carried
in stock galvanized.



No. 6.



No. 8.



No. 10.



Galvanized Screw Eyes.

No. 4

No. 5

No. 8

No. 10

Fig. 1370.



Open Screw Eyes.

Bright.

Nos. 6, 8 and 10.

Galvanized.

Nos. 6, 8 and 10.

Fig. 1371.

Brass Screw Eyes.



Fig. 1372.

No.	Per Gross.	No.	Per Gross.	No.	Per Gross.
1000	\$50.00	1109	\$5.00	1207	\$7.00
1001	40.00	1110	4.00	1208	5.50
1002	35.00	1111	3.00	1209	4.50
1003	27.00	1112	2.75	1210	3.50
1004	19.00	1113	2.50	1211	2.75
1005	16.00	1114	2.25	1212	2.50
1006	13.00	1114½	2.25	1213	2.25
1007	10.00	1204	14.50	1214	2.00
1008	8.00	1205	12.00	1214½	2.00
1009	6.00	1206	9.50	1214¾	2.00

Wooden Awning Blocks.

Lignumvitae Sheaves.

Not Bushed.

Strapped.



Fig. 1373.

Length of Shell, Inches.	Dia. of Rope, Inches.	Single, Each.	Double, Each.
1½	$\frac{3}{16}$	\$0.10	\$0.20
2	$\frac{1}{4}$	.11	.22
2½	$\frac{5}{16}$	.13	.26
3	$\frac{3}{8}$	.16	.32
3½	$\frac{7}{16}$	.20	.40
4	$\frac{1}{2}$	.22	.44

Without Straps.



Fig 1374.

Length of Shell, Inches.	Dia. of Rope, Inches.	Single, Each.	Double, Each.
1½	$\frac{3}{16}$	\$0.07	\$0.14
2	$\frac{1}{4}$	.09	.18
2½	$\frac{5}{16}$	.10	.20
3	$\frac{3}{8}$	.14	.28
3½	$\frac{7}{16}$	.17	.34
4	$\frac{1}{2}$	.20	.40

Galvanized Awning Blocks.

Malleable Iron.

Swivel Eyes.

Single Sheaves.



Fig. 1375.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
0	1	$\frac{1}{4}$	\$0.85
1	$1\frac{1}{4}$	$\frac{1}{4}$	.95
3	$1\frac{1}{2}$	$\frac{5}{16}$	1.30
5	$2\frac{1}{4}$	$\frac{1}{2}$	2.20
7	$2\frac{1}{2}$	$\frac{1}{2}$	3.00

Double Sheaves.



Fig. 1376.

Number.	Length of Shell, Inches.	Dia. of Rope, Inches.	Per Dozen.
00	1	$\frac{1}{4}$	\$1.05
2	$1\frac{1}{4}$	$\frac{1}{4}$	1.35
4	$1\frac{1}{2}$	$\frac{5}{16}$	2.10
6	$2\frac{1}{4}$	$\frac{1}{2}$	3.00
8	$2\frac{1}{2}$	$\frac{1}{2}$	4.00

Awning Cleats.

Galvanized.



Fig. 1377.

Number.	Length, Inches.	Per Dozen.
1	4½	\$0.20
2	6	.85
3	8	.50
4	10	1.20

Tent Slides.

Brass.



Fig. 1378.

Number.	Length, Inches.	Per Dozen.
1	5	\$1.45
2	4	.95
3	3	.65

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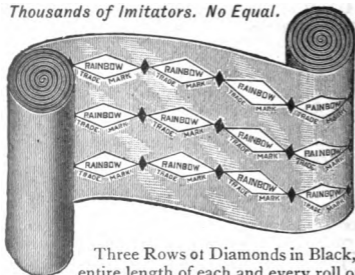
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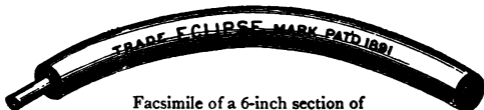
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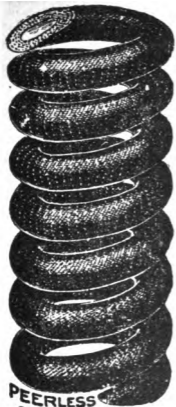
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